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Volume XXI. Number 8

August 22, 1906

MUNICIPAL JOURNAL AND ENGINEER

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SPECIAL NOTICE

In the respective following issues of the Municipal Journal and Engineer considerable space will be devoted specially to the subjects as indicated:

-1906-

September 5th	-	-	THE CITY BEAUTIFUL
			—Parks, Monuments, etc.
October 3d	-	-	FIRE AND POLICE
November 7th	-	-	LIGHTING
December 5th	-	-	BRIDGES

MUNICIPAL JOURNAL AND ENGINEER

VOLUME XXI.

NEW YORK, AUGUST 22, 1906.

No. 8

Published every Wednesday by

THE MUNICIPAL PUBLISHING COMPANY
Flatiron Building, Madison Square,
New York City

Telephone, 6723 Gramercy, New York

Entered as second-class matter, January 3, 1906, at the Post Office
at New York, N. Y., under the Act of Congress of March 3, 1879.

TERMS OF SUBSCRIPTION. PAYABLE IN ADVANCE
United States and possessions, Canada, Mexico, Cuba, \$3.00 per year
All other countries 4.00 per year
Make all checks payable to The Municipal Publishing Company.

Readers are invited to contribute to the MUNICIPAL JOURNAL
AND ENGINEER, either in the form of special articles or of letters
discussing matters of current interest.

It is also desired that the facilities furnished by the reference
library in this office should be widely known and freely used by
those interested in municipal affairs. Visitors will be welcomed
and provided with conveniences for search, and inquiries by mail
will be promptly dealt with.

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Polite Society in Pocatello

POCATELLO, IDAHO, is an enterprising town of 4,046 inhabitants. It has a jail and, of course, a judge. Funny things happen occasionally in the bright little place. Recently three men were caught pouring whiskey through a funnel to some prisoners in the jail. They were promptly arrested and the full tale was told by the police officer who haled them up. Being quite a nice question of law as to whether it was an offence to so supply the thirsty imbibers, the difficulty was overcome by the men being charged with disorderly conduct. In this connection, the construction of the jail, permitting of such a thing being done, must have astonished the architects of the district as well as the local prohibitionists. The matter was summed up as "being contrary to the usages of polite society"—which of course it undoubtedly is. The judge tersely impressed such a breach of manners upon the prisoners' minds by remarking "Twenty-three—or, rather, twenty-five, dollars, for you."

Fair Play for the Ferry

IN the face of the amount of criticism of the Municipal Ferry to Staten Island, is it not just as well to have the facts and treat the quality as well as the quantity? Here is a ferry taken over by New York City at short notice, not ten months ago, and already minor muckrakers and faultfinders are at work, and have been from the first, creating wrong impressions and discontent, particularly as to the financial end of things, as though this was the all. What was the ferry like before the city took it over? A slow, ramshackle, unpunctual, antiquated outfit, that was a standing danger, as well as a disgrace, to the metropolis. What is it now? A splendidly-equipped, well-managed department, with five new, safe, magnificent boats that make the trip in much less time and with more regard to promptness, than it ever heretofore aspired to. There are also cleanliness, full sitting accommodations, polite attendants, and everything that a city need be proud of. The result has been a marked increase in the number of passengers and a material addition to the wealth of Staten Island. The receipts of the ferry have gone up with regularity from \$39,026.55 in January to \$69,889 in July, with every prospect of the average being well maintained throughout the remainder of the year. The exaggerated reports as to reckless extravagance in the matter of salaries and other things have about the same value as the comment alluded to above. In time the ferry will pay its own way. Give it a chance. It is a municipal baby, not a year old, and only just about feeling its feet. If the expenses, so far, do show, even thousands of dollars, over the receipts, have not the citizens benefited in many ways, apart from the additional healthfulness and comfort gained? This bogey of "increase of expenditure" is a mere flea-bite of a fraction per head of the population, which every rightminded individual will gladly pay for the improved service rendered. The additional assessment value of Staten Island itself will well reach up into the millions, and it is now up to the residents of this attractive and likely to be more popular locality, to have their wretched and utterly unsuitable car service promptly shunted into the junk shop and new arrangements made for the proper accommodation of the greatly increasing numbers of passengers the boats take over. New York City has no occasion to be ashamed of this venture. It deserves every credit for its practical enterprise. It is a pity there is not more of it.

REVENUES FROM WATER

Exceed Expenditures at Binghamton, N. Y.—No Bonded Indebtedness for Plant—Meter Rates and Average Daily Consumption—Cost

A MUNICIPAL system of waterworks was installed at Binghamton, N. Y., in 1867, at a cost of \$100,000. The city now values the system at \$1,500,000, and during the last twenty years it has not cost the taxpayers a dollar, as the income from water rents has met all expenses of maintenance and improvement, besides paying both principal and interest on bonds. The report of the Water Commission for 1905 contains this significant paragraph: "We have paid off bonds amounting to \$103,000 during the past year. We have no indebtedness. Revenues will furnish funds for anticipated expenses, and we have no appropriation to ask." To this statement it may be added that by resolution of the City Council, 15 per cent. of the gross receipts from water rents and frontage taxes are hereafter to be applied to the payment of other municipal indebtedness. As the total amount of city bonds is something less than a million dollars and the gross water receipts last year were \$119,023.41, it is safe to predict that Binghamton taxpayers will have little cause for complaint.

The water system in use is the direct pressure one, the source of supply being the Susquehanna River. The pumping apparatus consists of two Holly-Gaskill four-cylinder compound condensing engines, with a capacity of 12,000,000 gallons each for 24 hours, and one Snow cross-compound condensing engine of the same capacity. The Parsons system of forced draft is used on the boilers and is satisfactory. The average daily amount of water pumped during 1905 was 6,701,774 gallons. The number of gallons pumped per pound of coal was 559. The water is filtered by the American or Mechanical Sand Filtration System, installed by the Norwood Engineering Company, of Florence, Mass., in June, 1902. The filtration plant has a capacity of ten millions daily and cost \$86,292.

The city furnishes free water for fire mains, municipal buildings, school buildings, all charitable institutions; also for watering-troughs and for flushing pavements.

During the past twenty years, the water rents have been several times reduced. Water rates now run from six cents per thousand gallons for an average daily consumption of 6,000 or more gallons, to twelve cents for less than 1,000 gallons. Where meters are not used, water for cooking is furnished for three dollars per year to a family not exceeding six persons. Bath tubs and water closets are three dollars for one, and one dollar for each additional tub or closet. Hand hose for sprinkling lawn is three dollars a year. Rates for public buildings, such as hotels, bar, livery stables, barber shops, etc., are proportionately low. A frontage tax not to exceed fifty cents for each twenty-five feet of street frontage is imposed on owners of real estate.

The meter rate is most satisfactory to the city and the consumer, and more meters are being installed each year. The 1905 report shows a total of 1,192 meters of all sizes. The city has a population by the last census of 43,042. There are eighty and one-quarter miles of water mains in use, with 8,587 taps on these mains, with 777 hydrants and 1,196 street valves.

Binghamton thus has a system of waterworks of which any municipality might well be proud. The filtration is most satisfactory, the daily tests showing a bacterial efficiency averaging between 98 and 99 per cent. Turbidity is reduced to zero, or approximately so. During 1905 there were 54 complete sanitary analyses and 310 bacteriological tests. The system has paid for itself, even at its remarkably low water rent, and now promises to be a source of income for other municipal purposes.

NEW FIRE ALARM SYSTEM

Designed for Use in Towns and Villages—Automatic in Operation—A Simple Device at Comparatively Small Cost.

A NEW fire-alarm system, with both novel and unique features, has recently been invented and patented by B. F. Beane and Roy P. Bennett, of New Paris, Ohio. This system is especially designed to meet the needs of smaller towns and villages having a volunteer Fire Department. It is equally well adapted to cities having only one engine-or hose-house. It is altogether automatic in its operation, needing but to be set in motion by pushing the button in the box nearest the location of the fire, when not only a general alarm is sounded, but special alarms are given at the homes of the firemen, thus quickly assembling the company and getting the fire-fighting apparatus, whatever it may be, in readiness at the earliest possible moment. The system is claimed to be reliable and comparatively inexpensive, simple in construction, and requiring only ordinary mechanical skill to install and keep it in running order.

This system may be described as using a normally open electric circuit, but it will work equally well with a closed circuit. The device or machine is located at a central station and will intermittently close a normally open circuit which is connected with the striking apparatus of the bell in the tower of the central station, or the striking apparatus may be located in a church tower or other building if desired. The machine is made up of two parts, one of which gives a general alarm of successive rapid strokes for a short interval, at the close of which the second part is set in motion, causing the bell to strike as many times as the number of the box from which the alarm came. This part is constructed so as to strike any number from one to twelve, and which is determined by means of slides of different heights, caused to move under a drop lever falling upon the slide which is brought into operative position by an electro magnet in circuit with the push-button.

in the alarm-box already mentioned. The distance this lever falls determines the number the machine will strike. The alarm-boxes are numbered to correspond with the slides they operate. By means of a repeating mechanism this may be repeated as many times as desired by winding it a corresponding number of turns. This part alone may be used, and of itself give the alarm usually sounded in other systems.

SOUNDING THE ALARM

When the machine is set in motion the special circuit is closed, causing the special alarms to be sounded, thus bringing the company together in the shortest possible time. At the central station is also located an annunciator which shows the number of the box from which an alarm is turned in. The firemen do not need to count the strokes to know the location of the fire, as this is shown by the annunciator. Where there are no lights in the central station an electric lamp is connected in circuit, thus enabling the number to be distinctly seen.

CHARGES FOR WATER

Rates of Martinsburg, W. Va.—Table Showing Figures for Hotels and Domestic Use—Outside of City Limits

THE charges for water by the city of Martinsburg, W. Va., are given in the accompanying table. How do they compare with the rates of your own town?

WATER RATES FOR 1905-1906

Hydrants for family supply.....	\$5.00
Hose in connection with same.....	4.00
Bath tub in connection with other supply.....	2.50
Water closets, automatic.....	2.50
Bath tubs, alone.....	5.00
Pavement sprinkler, alone.....	4.00
Fountain	20.00
Motors	3.00

HOTELS

Hydrants for domestic use.....	15.00
Bars, water in or not.....	7.50
Wash basins, first.....	4.00
Each additional.....	1.50
Bath tubs, for use of boarders.....	6.50
Urinals, each	3.00

MISCELLANEOUS

Nurseries	7.00
Livery and boarding stables.....	20.00
Bakers and confectioners.....	7.00
Liquor stores and restaurants.....	9.00
Slaughter houses alone (water stock add.).....	7.00
Photographers, first faucet.....	15.00
Each add. faucet.....	4.00
Barber shop, one chair.....	5.00
Each add. chair.....	2.50
Theatres and opera houses.....	2.50
Drug stores, first faucet.....	6.50
Drug stores, each add. faucet.....	3.00
Drug stores, tumbler washer, automatic.....	4.50
Drug stores, tumbler washer, not automatic.....	20.00
Printing offices	10.00
Blacksmith shops	3.00
Steam engines, 60 to 80 horsepower.....	40.00
Small engines for running elevators.....	10.00
Water motors for running fans.....	5-50.00
Bottling works, ordinary.....	15.00
Steam laundries.....	25.00
Stables, first head of stock.....	1.50
Each add. head.....	.75
Filling cisterns not in reach of mains.....	2.50
Filling cisterns in reach of mains.....	2.00
Carrying water.....	2.50

WATER OUTSIDE CITY LIMITS

Hydrants for domestic use only.....	7.00
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WHAT IT COSTS FOR WATER

Per Annum
First-class (rental value \$200 and upwards).....
Second-class (rental value \$150 to \$199).....
Third-class (rental value \$100 to \$149).....
Fourth-class (rental value under \$100).....
Banks, stores, shops and offices, each.....
Bakery in addition to dwelling house.....
Bakery without dwelling house.....
Barber shop, one chair.....
Each additional chair.....
Bathing tubs, except in private dwellings, hotels, colleges, seminaries, each.....
Blacksmith shops, one fire.....
Each additional fire.....
Building purposes—bricks per thousand.....
Building purposes—stone per perch.....
Building purposes—plastering per 100 yards.....
Brewery, in addition to dwelling house.....
Colleges and seminaries.....
Foundries, machine shops and manufactories.....
Fountains in open air.....
Hotels and boarding houses.....
Livery Stables—Cannot use hose.
5 horses and less than 10.....
10 horses and less than 15.....
15 horses and less than 20.....
20 horses and less than 25.....
25 horses and less than 30.....
30 horses and above.....
Printing offices.....
Photographers
Railroads
Restaurant and saloons, exclusive of dwellings.....
Restaurant and saloons, with water in dwelling.....
Slaughter houses.....
Soap factories.....
Stables, private.....
Screw nozzle.....
Steam engines.....
Water Motors
Water paves in connection with other opening.....
Wash paves alone, with no other opening.....

The above rates have been approved by the Mayor and Council as required by law. As many taps and bath tubs as wanted are allowed.

Notes from Owego, N. Y.

THIS is the locality of the boyhood home of Senator Thos. C. Platt, and is the town where he still comes to vote. The house in which the Senator was born has just been torn down to make room for a new \$40,000 school building.

Owego has a population of 5,300, and it is safe to say no better kept town of its size can be found in the Southern Tier. The distinguishing feature of the village is its broad macadam streets, shaded with beautiful elms and maples. The macadam is laid and kept in repair by the village authorities, who own and operate their own stone crusher and steam roller. There is not a dollar of debt on the town, and the cost of maintaining schools, streets, Fire Department, police, and other village expenses, is met by a tax of 1 per cent. on \$3,000,000 assessed valuation.

A number of public-spirited men, among them the efficient President of the village, Mr. Orin T. Gorman, have recently subscribed \$20,000 for the erection of a theater. Tioga county, of which Owego is the county seat, is building a fireproof County Clerk's office to cost \$15,000.

Metropolitan Items and Notes.—Controller Metz is determined not to sign the contract with the Richmond Light and Railway Company. "Sue," says Mr. Metz.

Judge MacLean has decided that the ballot boxes must remain sealed until after the Legislature meets. Looks like a matter of embalmed votes.

The new Bureau of Municipal Statistics has been organized. From \$4,000 to \$6,000 each for six men. Will this prove a further addition to the city's tangled accounts?

The District Attorney's silence in respect to the nomination for the Governorship has finally been disturbed.

The Consolidated Gas Company has just declared a quarterly dividend of 1 per cent. on \$100,000,000. Yet it is stated that the manufacture of gas at 80 cents per 1,000 c. f. will be a losing transaction.

The president of the Union Bank, on behalf of the Brooklyn Rapid Transit Company, visited Borough President Coler, asking for the privileges of more trolley extensions. It is believed that the words used by Mr. Coler in his reply will have to be carefully edited before they are printed.

There is a grunt by "R. C. W." in respect to apartment houses charging \$1.00 a month, in addition to the usual price for each telephone message. "R. C. W." wants to know if the company and the apartment houses "divvy" this up. Cannot say; never knew the company to halve anything yet.

The Hippodrome will have its own ice plant; 150 tons a day at \$1.60 a ton, somewhere about 12 1-2c. per 100 lbs. There should be money, after all, in the ice business.

A complaint of obstructing the sidewalks is made by a "New York Lawyer." Why, it is a regular game of tag for pedestrians nowadays. In West Twenty-fourth street, between Broadway and Sixth avenue, quite an amount of incidental manufacturing and storage is done on the sidewalks there.

"The bad bookkeeping of the city is the bane of its credit," claims the president of the Greenwich Savings Bank. Wonder if the president ever receives the volumes of the Chinese Puzzles that read anyway but the way they are wanted to, that the city prints and issues from time to time.

The Bronx wants the Harlem River Ship Canal finished. Don't hurry; the job has only been thirty-two years in hand so far. It will be completed in 1920.

Bad milk dealers are getting it now at the rate of \$100 bail each for selling it adulterated. This should interest Mr. Nathan Straus.

The fans for cooling the subway have been lost somewhere in a freight car between this city and some place out West. It is hoped, however, to have them found and installed, ready for the winter.

There are 42,340 people on the city's pay rolls. An increase of 2,833 over the preceding quarter. Father Knickerbocker has to have a deep pocket.

The Edison Company states that the city has been having free light to the amount of \$2,000,000. There must be a lot of loose philanthropy lying around.

MUNICIPAL NEWS

ALABAMA, Mobile.—As a result of the waterworks election—the vote on which was surprisingly small—the city has come into possession of an adequate water supply. Two mains, two reservoirs and two sets of pumps insure the city against accident.

ARIZONA, Prescott.—The revolt against the electric-light monopoly crystallized in a petition to the City Council for a municipal lighting plant. Petitioners who subscribed to funds for the plant number five hundred. The people are aroused against the methods of the lighting company, which, it is claimed, charges exorbitant rates.

ARKANSAS, Helena.—The work of oiling Arkansas street has proven so successful that it has been decided that the system shall be extended. Arkansas street has a 6 per cent. grade, and the fact that it did not wash during recent heavy rains is sufficient proof that oiling is a good thing.

CALIFORNIA, Los Angeles.—The city is building an outfall sewer to the ocean, 20 miles away, at a cost of about a million dollars. Recently the firm engaged in the work threw up its contract, having finished about 75 per cent. of the distance to be covered. The reason for this course lay in their encountering a vein of water in an 8,000-foot tunnel which it was proposed to construct. The city will proceed to let a new contract, using the unpaid balance of \$150,000 and the bond of \$150,000 to recoup its loss.

Sacramento.—Three expert Civil Engineers have been appointed by the Supervisors on the recommendation of the Mayor to consider, in conjunction with the City Engineer, the propositions for furnishing the city with its own water system. The engineers named are Major C. H. McKinstry, U. S. A.; C. D. Mark, professor of engineering at Leland Stanford Jr. University, and A. M. Hunt, all three members of the American Society of Civil Engineers.

COLORADO, Trinidad.—The Trinidad Chamber of Commerce will not join with the State Association this year in advertising Trinidad and Las Animas County, according to Secretary Mann, of the local body. The Chamber of Commerce is preparing to advertise the city and county extensively throughout the East.

CONNECTICUT, Middletown.—Mayor Willard C. Fisher, the Finance Committee and the Abatement Committee of the Common Council, met recently in the Mayor's office to consider definite plans toward the collection of back taxes due the city. Various plans were discussed and it was finally decided to send a printed inquiry to every delinquent, asking him to give the reason why the taxes have not been paid. Mayor Fisher expressed the opinion that there may be some who are actually unable to pay, and in such cases the Abatement Committee will give them its attention and report to the Council.

DELAWARE, Wilmington.—At a recent meeting, at which the franchise of the Light, Heat & Power Company was passed over Mayor Wilson's veto, Commissioner Gray explained that this franchise gives the city the opportunity, at the end of any five-year period, to purchase the street electric lighting equipment, in addition to getting the lights at \$25 cheaper per lamp than it is now paying. "This proposition means a great deal to the city and the people," he said. "We pay \$41,412.50 for lighting our streets. We have 345 arc lights which cost us under the present company \$64.92 each per year, or a total of \$22,397.40."

DISTRICT OF COLUMBIA, Washington.—The outlook for new sheet asphalt paving in the District during the present fiscal year, as authorized by an appropriation of \$20,000 by the last Congress, does not, it is said, appear particularly promising. In making the appropriation it was specified by Congress that the sheet asphalt should not cost more than \$1.65 per square yard, and in spite of twice advertising for bids the Commissioners have not been able to secure a proposal which comes within the limit.

FLORIDA, Pensacola.—The health authorities are continuing their crusade for a cleaner city, and not a day has passed during the week that from six to a dozen citizens have not been arraigned in the Recorder's Court for violating the sanitary laws. It is now a violation of the laws to allow water to stand in the yard or residence until it becomes stagnant, thus breeding wrigglers. A small tin can left in the yard, which will catch and hold rain, will cause the owner to be fined from \$2 to \$5.

IDAHO, Boise.—Tax Assessor Stephen Utter estimates that the total valuation in the city of Boise of taxable property will foot up very close to \$6,000,000, or an increase over last year of about \$300,000. The rate of taxation last year was \$1.46 on \$100, but this year the City Council has made the rate \$1.66 on \$100.

GEORGIA, Augusta.—The proposition to build a new City Hall for Augusta is again before the Council; this time on the report of the Street Committee, which recommends that the city purchase the square in front of the Union Depot for \$45,000, with a view to erecting thereon a new City Hall.

Fitzgerald.—When the news that the bill creating the county of Ben Hill had passed the House reached here, the fire alarm was at once sent in, and the newly-installed paid Fire Department came dashing up Main street. The Fitzgerald brass band was in readiness and began playing almost immediately. Dozens of men literally hugged each other in the streets.

ILLINOIS, Chicago.—Freight traffic through the tubes of the Illinois Tunnel Company opened July 15, when a train of eleven midget cars pulled out of the freight-house of the Erie and was distributed to the Great Western and Chicago, Milwaukee & St. Paul freight-houses, as well as to several warehouses within the loop. The train made its deliveries without incident.

Joliet.—At a meeting of the Will County Chautauqua, Mayor Dunne, of Chicago, stated that in nine Illinois cities where the water is sold by private companies the cost was \$10.54 a year per family, while the general average for nine cities where the waterworks were operated by the public was \$4.13.

Moline.—A. H. Mertz has come forward with a plan for establishing a public bathing building, for the free use of the people of the city, and states that he has received the support of the Woman's Club and the Business Men's Association. The cost of the enterprise is estimated at \$20,000, which it is believed can be raised by donations. A series of entertainments under the auspices of the associated paternal and civic associations has been arranged. The plan will be developed more fully as sufficient support is given.

INDIANA, Fort Wayne.—Guy Coleridge, City Attorney, is framing a question regarding the assessment of street railway property to present before the State Board of Taxation. Since the city lines have been absorbed by the interurban company, the entire property is included in one lump for the purpose of taxation, and the State Tax Board has this year fixed the valuation of the entire line at \$9,000 a mile. Mr. Coleridge

says that the city of Fort Wayne suffers from this arrangement, because it reduces the assessment of the city street railway lines from \$21,000, the former rate, to \$9,000, a difference of \$12,000 a mile, and thus reduces the city's revenue from taxation to a very great extent.

Indianapolis.—Reports received at the office of the City Board of Health indicate that the strawboard factories around Muncie had been dumping refuse into White river again. City Chemist Clark was sent to Muncie at once to get samples of the water for analysis, and to make observations. Dr. Buehler is of the opinion that the filter beds maintained by the local water company would be able to remove the objectionable substances if any reach them. "Strawboard refuse," said Dr. Eugene Buehler, city sanitarian, "is not poisonous, but it makes water very distasteful to drink. Every effort will be made to find the persons responsible for this pollution."

INDIAN TERRITORY, Vinita.—A company has been incorporated to build an auditorium, to cost \$25,000. In the building will be a natatorium, opera house, ballroom, commercial clubroom, and various other public and semi-public features, and the building will be on the right of way of the Frisco railroad and will be surrounded by a beautiful park. Judge L. F. Parker, Jr., is the promoter of the company.

KANSAS, Holyrood.—The bumper wheat crop, together with the huge corn crop, has stimulated building and improvements in the towns to a surprising extent. Holyrood is an example. With five hundred people Holyrood has built a large flouring mill this season, and has four large stone business houses about completed; is preparing to lay a mile of cement sidewalks; is putting in a street lighting system; has \$3,000 in the town treasury, and not an empty room or house in the town.

KENTUCKY, Lexington.—The biggest concrete mixer ever used in Lexington is in commission on North Broadway, preparing the foundation for street car tracks.

Louisville.—A comprehensive ordinance to provide a \$4,000,000 sewer system is being prepared by the Joint Sewer Committees of the General Council. The matter will probably be submitted to a popular vote in November.

Paducah.—The Paducah Commercial Club has set out to make the city 50,000 inhabitants by 1910, and to accomplish this purpose to sell 20,000 buttons at 50 cents each, which would place in the treasury \$10,000. This money the club will use in advertising the city and its resources. The late census, as reported by the company that published the directory, gives Paducah 28,800 people, and the city is steadily growing.

LOUISIANA, Monroe.—In addition to owning a street railway, Monroe owns waterworks, an electric lighting plant, a summer theater, a baseball park and a race track. The city has established a free bridge, built a large free school and a City Hall with a market. The prices charged for commodities furnished from enterprises acquired from private owners are the same as before and the profits go into the city treasury to pay for various improvements.

New Orleans.—New Orleans dairymen want to purchase land for the purpose of establishing a large dairy in St. Bernard, to be operated independently of ordinances of the City Council, except the regulations of the City Board of Health, in regard to the inspection of the dairy products. The prospective purchasers have made up their minds to locate in St. Bernard whether or not the City Council grants an extension of time to New Orleans dairymen to transfer their business without the city limits.

MAINE, Charlotte.—Road work has commenced in Charlotte, and while the appropriation for the purpose is not large it is probable that the town will build from 600 to 800 feet of road this season, the coating of the road being of gravel. This is the first year that the town has done any work in the way of State road building.

MASSACHUSETTS, Boston.—In a letter to Mayor Fitzgerald, the Central Labor Union calls attention to a clause in the contract between the city and the Edison Electric Illuminating Company, permitting the Mayor to have the terms of the contract arbitrated. The Union objects to the price of \$125 per year now paid for arc lamps, and believes that \$75 is sufficient. In reality the Union favors a municipal plant and claims that \$5,000 a day can be saved.

Fall River.—Alton D. Adams, in a report on the gas question, finds that whereas the city nominally has 90-cent gas, owing to the increased pressure the consumers pay as much as before the ten-cent reduction.

Lynn.—Fire insurance rates have been increased 20 cents per hundred. If the city will add two engines and a water tower in the manufacturing district 10 cents will be taken off, 5 cents more for thorough electrical inspection, and another 5 cents for a modification of the building ordinances. Lynn has six engines.

MICHIGAN, Detroit.—In the discussion of the value of the franchise which it is proposed to grant the Detroit United Railway, it is recalled that in 1899, when the street railway company had something to sell to the city and was interested in getting the best price possible for its wares, the value of the franchise rights then enjoyed was ascertained by Professor Edward W. Bemis and the accuracy of his results was never questioned. The method is as good now as it was then. The method of computation starts with the value of the physical properties, on which 4 per cent. interest is allowed. This, with the allowance for depreciation, is deducted from the ascertained net earnings, which are increased from year to year at an estimated rate. The present worth of the product is taken as the franchise value for the year in question. The monopoly values for other years are found in the same manner and when added together the franchise value for the whole period results.

South Range.—South Range, a thriving mining town, has a Chief of Police without a salary. He has no salary because the President of the village will not sign his pay warrant and the village has no other chief because the Council will make no other appointment.

MINNESOTA, Duluth.—A freight steamer recently ran into the drawspan of the Interstate Bridge and threw it into the river. Navigation to the upper harbor was closed, as well as street railway and team traffic to Superior.

Minneapolis.—There is some opposition on the part of St. Paul to the establishment of the proposed Armour plant. It is claimed that pollution of the river by sewage will occur. Representatives of the packing company point out that every particle of animal matter from all animals slaughtered is utilized in some way. The sewage will be merely the wash from the floors and the brine baths and wash waters of the plant. It was shown by statistics that the amount of pollution in the sewage from a large packing plant is less than would result from an increase of 10,000 in population.

MISSISSIPPI, Collins.—The artesian wells belonging to the city caved at the bottom. The flow of water immediately stopped and the city suffered.

Gulfport.—The Assessor has been at work several days on the new rolls. The totals this year will about

double those of last year. The total assessment for real estate will approximate \$12,000,000.

MISSOURI, Kansas City.—Upon January 4, next year, saloon keepers of Kansas City will begin paying a yearly license of \$500 instead of \$250, the present rate. When it becomes operative the license ordinance provides that all existing licenses are to be renewed, but no new ones are to be issued until the city has reached a population of 400,000.

MONTANA, Bozeman.—The most successful and unique fiesta ever conducted in Montana was held recently at Bozeman, when the sweet pea carnival was given. Those flowers are in bloom in Montana now, and the event was a celebration of their successful cultivation. The city was handsomely decorated and a notable street parade along the usual lines was given.

NEBRASKA, South Omaha.—Governor Mickey has notified the Board of Fire and Police Commissioners of South Omaha that they must keep all saloons closed on Sunday. In case they fail to comply with the order, the Governor said he would institute proceedings for their removal.

NEVADA, Rhyolite.—A pleasure resort in Death Valley! This reminds one of the proverbial snowball in hades. Yet it is what F. M. Smith, owner and builder of the Tonopah & Tidewater Railway, is going to establish. The surveyors are now engaged in laying out a site for a large pleasure resort that is to be built near the Smith borax works. Wells are to be sunk for water and where once the rattlesnake and the chuckwalla fought for a dried-out existence is to grow up a splendid hotel, surrounded with wide lawns, cool irrigating ditches, fountains, grass and trees, for the soil of this particular desert spot is rich and charged with life-giving power when once water is placed upon it.

NEW HAMPSHIRE, Goffstown.—Among the papers and books that are in possession of this town, there is none valued as the first book of records that contained the record of the grants of the township, granted by George the III., King of England. The first date in the book is 1749.

NEW JERSEY, Haledon.—The vote at an election on the question of the municipal ownership of the local waterworks proves that popular interest in these questions is rapidly increasing. At special elections upon such issues the vote is rarely more than one-tenth the total number of qualified voters. This was about the ratio when New Jersey in 1903 voted on the constitutional amendments. It was about the proportionate vote cast several years ago in Jersey City on a bond issue, and in Plainfield last year on the question of owning its water supply. But at Haledon recently 271 out of its 355 voters attended the polls and cast their ballots. This is very nearly 75 per cent. of the total vote of the town, and speaks well for the interest taken by the people in a question of so much importance. Thirteen ballots had to be rejected because of irregularity, but there were 155 votes in favor of municipal ownership and 104 against.

Rahway.—City officials are considering taking up the question of a municipal lighting plant in the near future, to be operated in conjunction with the pumping station of the municipal water system. A committee of the Common Council has the matter in hand and is preparing to make a complete report. The Jones municipal ownership bill, recently signed by Governor Stokes, gives municipalities the legal right to own and operate electric lighting plants, and the Common Council has taken advantage of its provisions and will make a thorough investigation as to cost of installing and operating.

NEW MEXICO, Santa Fe.—The Scenic Highway east of Santa Fe is to be pushed as rapidly as possible to completion, and an extra squad of convicts is to be put to work at once. There is a possibility that the Federal Government will build a continuation of the highway through the Pecos reserve.

NEW YORK, Buffalo.—Tests by City Chemist Herbert M. Hill show that a large proportion of the gas now supplied by the Buffalo Gas Company is water gas. Health Commissioner Walter D. Green claims that this is more dangerous and of less value as an illuminant than the gas called for in the company's contract.

West Seneca.—Plans for a sewerage system are being discussed and will be drawn up by lawyers and engineers after conferring with the State Board of Health. The steel plant will pay over \$100,000 of the expense.

NORTH CAROLINA, Wilmington.—Ex-Mayor S. H. Fishblate, interviewed at Elizabeth, is quoted as follows: "Wilmington is the coming town of the South. It has the harbor and all other facilities for making a great trading point, and these resources are already being developed. The city has a large export trade, especially in cotton. Ships enter the harbor that cannot get into Charleston. The merchants and jobbers are enterprising and pushing. In six years the population has increased from less than 21,000 to between 35,000 and 40,000."

NORTH DAKOTA, Fargo.—Residents of Island Park, near St. John's Hospital, may have the opportunity of buying heat from a semi-public plant. The hospital management has been petitioned to install a plant sufficient for this purpose.

OHIO, Columbus.—Collection of the vehicle tax has begun. After a reasonable time owners of vehicles without tags will be fined. The tax is expected to realize \$15,000 for the street repair fund.

Toledo.—Legislation providing for a City Hall site has been defeated through the veto of the Mayor, who expresses the opinion that the proposed location is too small for the purpose. He has intimated that he has in view a scheme for grouping the public buildings, and the proposition to vacate Ontario street, between Adams and Madison streets, is credited to him. If this is the Mayor's object, he will probably be heard from shortly, for an improvement on so magnificent a scale means years of effort, and the preliminary work cannot be begun too soon. And what is also an important consideration, the city can never hope to acquire real estate as cheaply as it can to-day.

Wellston.—City Clerk Kennedy certified to the County Auditor that the municipal tax levy for 1907 will, without doubt, be the lowest in the State. The levy is seven mills. Wellston owns its own lighting plant and waterworks.

OKLAHOMA, Lawton.—George L. Warner, an engineer of the United States Government Survey, has been sent to Lawton to take charge of the work of surveys preparatory to the extending of the waterworks system of the city of Lawton.

OREGON, Portland.—If all the water now running to waste in Bull Run river is brought to this city, as proposed, the present water supply would be nearly trebled. It is estimated that the capacity of the present pipe line is 22,500,000 gallons per day, and that a total of approximately 40,000,000 gallons is running to waste down the river. If all this surplus is utilized the new pipe line would necessarily have a capacity twice that of the present conduit.

PENNSYLVANIA, Pittsburg.—A large deficit in the finances of the city government is staring Mayor Guthrie and his department chiefs in the face, notwithstanding the fact that the tax levy to raise revenue is two mills higher this year than last. In the Bureau of Highways and Sewers, Public Works Department, a shortage of upward of \$200,000 has already been reported, and on the heels of this comes the statement that the Bureau of Health, which started the year with an appropriation of \$263,000, is also running short.

Reading.—The first application, it is said, ever made in this State for the annulment of a common carrier's charter on the ground of violation of the law in granting passes was heard by Attorney-General Hampton L. Carson, when counsel representing the Taxpayers' League, of Reading, and Dr. F. H. Brobst, president of the league, urged quo warranto proceedings against the United Traction Company of Reading. The league demands the annulment of the company's charter on the ground that it has issued free passes to Reading councilmen.

RHODE ISLAND, Providence.—Mayor Dyer, the Dog's Friend, has written the Police Commissioner, directing that all valuable dogs found shall be held 24 hours. He has also written James N. Smith, president of the S. F. P. C. T. A., urging him to cooperate in securing drinking fountains for dogs.

SOUTH CAROLINA, Cherokee.—Mayor Little made a political speech the other night, so eloquent as to gather a mob and block the streets. In administering the law, he said he would make no distinction between his own son and a citizen of Smutsville. When asked to move on, he challenged the police to come on and he would "lick the whole push." The next day, in police court, after fining a negro \$15 for a trifling offense, he put up \$5 security for himself, failed to appear, and forfeited the \$5 without trial.

SOUTH DAKOTA, Aberdeen.—The State band of Aberdeen is attracting attention at the Minneapolis Grand Army Veterans' Reunion. The band is less than two years old and is supported wholly by citizens of Aberdeen.

TENNESSEE, Chattanooga.—Ground has been broken and work started on the new \$600,000 steel-constructed hotel at the corner of Eleventh and Market streets. The work was started by a dynamite blast, which followed a public gathering and demonstration. Speeches were made by Mayor Frierson, City Attorney Chamlee, Vice-President Annis, of the Manufacturers' Association; Vice-President Fletcher, of the Chamber of Commerce, and others.

Memphis.—Acting Mayor Walsh recently declared war on the vagrants, and it has been suggested that when they are rounded up they should be organized into a flying squadron and assigned the task of sweeping the streets. Many complaints are made from different parts of the town regarding the prevalence of the dust, and the inadequacy of the sprinkling and street cleaning system. Instead of allowing the vagrants to be a burden on the city, they may be organized into a street cleaning squad. It would be possible to get several dozen vagrants for this purpose, and by putting them in charge of reliable guards they could be made self-supporting.

TEXAS, Fort Worth.—Superintendent H. L. Calhoun of the city waterworks has rendered a report to Mayor W. D. Harris, showing that during the year ending April 1, 1906, the loss to the city in operating the plant amounted to \$43,923, provided no credit is

given the department for hydrant rental, which is valued at \$32,000. An estimate of losses for the current year places the figures at \$38,923. It is believed that when the matter comes up for consideration in the Council rentals will be increased or the plant remodeled.

UTAH, Salt Lake.—City Health Commissioner M. R. Stewart was arrested for "creating a nuisance" by causing garbage, swill, etc., to be dumped in "Horseshoe Bend," at Tenth and Eleventh West and Third and Fourth South Streets. Sanitary Inspector W. H. Margetts and four garbage wagon drivers were also arrested. While dumps are an offense to citizens in two portions of the community, only 306 loads of garbage were burned at the city crematory last month, according to the report of the Health Department.

VERMONT, Burlington.—Burlington in 1904 paid into the State Treasury on school taxes \$10,870.40. She was paid back merely \$3,502.69. She paid in highway taxes \$6,754.63, and drew out \$482.47. In other words, Burlington was taxed for schools and highways \$17,563.03, and drew back \$3,985.16. In this manner, \$13,576.87 of her money was not expended by her municipal officers. Underhill, in the same county, paid for schools \$418.11 and for highways \$261.32, a total of \$679.43. She drew back \$808.31 and \$596.51. Underhill was bettered \$725.39.

VIRGINIA, Charlottesville.—The Mayor's veto of the resolution to lease the City's Gas Plant to Marcus R. Williams, of Baltimore, has been sustained. The matter will, however, be referred to the people at the next election.

Portsmouth.—The Mayor recently vetoed an appropriation of \$100 per month, voted for the support of the King's Daughters' Hospital. The Council passed the appropriation over his veto by a vote of 14 to 1. In announcing the vote President Hall took occasion to state that while the Mayor disapproves the appropriation of the public funds for the support of the hospital to the extent contemplated by the appropriation, he had contributed most liberally of his own means for the support of the institution.

WASHINGTON, Seattle.—Assistant City Engineer Scott is in favor of adopting a meter system for the water supply. He claims that no increase in water rates will be necessary. As a member of a commission appointed in January of 1905 to investigate into the installation of a meter system in Spokane, Mr. Scott is familiar with the working methods of such a system.

WEST VIRGINIA, Wheeling.—The question of doing away with line fences between small lots is being agitated. Nothing would add more to the attractiveness of the residences than the park-like effects produced by the absence of unsightly enclosures.

WISCONSIN, Racine.—Attorney Samuel Ritchie, a Lake avenue property owner, addressed the Council recently on the subject of lake shore protection, and urged that steps at once be taken to save further incursion in the lake bank south of Sixth street. Mr. Ritchie stated that he, together with other realty owners along the lake, had protected their property at their own expense for the last thirty years, during which time they had paid taxes for the improvement and protection of other parts of the city, and he considered it no more than just that something now be done by the city to prevent further damage by the lake.

WYOMING, Cheyenne.—The recent discovery of thousands of acres of placer claims in the Douglass Creek district will lead to the building up of new towns.

IN OTHER LANDS

ALASKA, Juneau.—This city is now the official capital of Alaska. Governor Hoggatt has been using temporary offices in Juneau, although Sitka is the real capital. An appropriation of \$5,000 for contingencies, and a favorable opinion by the Attorney-General will allow him to transfer the territorial offices and establish them here.

HAWAII, Hilo.—Secretary Atkinson on a recent visit expressed the opinion that it was important to have set aside in parks, protected and preserved, the heiaus, or ancient native temples, one of which, on one of the Puna hills, the Secretary and his party visited. Rainbow Falls Park was also visited and the idea of the preservation of the place in its native beauty was favored. The idea of the bay front park was urged and the promise made that every effort would be made with this in view to make an exchange with the Bishop estate for the property necessary on the Waiakea side of Mooheau Park, and to acquire in some manner the portion owned by the Hitchcock estate.

ISTHMUS OF PANAMA, Panama.—According to census reports, the population of the city is 22,547.

CANADA, Montreal.—Work on the new bridge across the St. Lawrence has begun. It will be a cantilever bridge, with a main span of about 1,500 feet length and a clear heading of about 150 feet. It will also be of the double-deck pattern and will afford accommodations for three railway tracks, two trolley tracks, two roadways, and two footpaths. The railway tracks will occupy the whole upper deck, as the trolleys and vehicles will need a quicker descent to the streets of the city. This part of the bridge will touch land at about St. Catherine street, while the upper portion will be continued for full three-quarters of a mile further, where the terminal will be erected. The bridge will probably be the heaviest per foot ever erected.

Niagara Falls.—The greatest engineering task ever attempted in this section of the country has been completed in the finishing of the great tunnel of the Electrical Development Company of Ontario, Limited. A force of from 100 to 400 men has been at work on this undertaking for three years. The work will be turned over to the power company, which has expended about \$1,500,000 in its construction.

Regina.—The Union of Saskatchewan Municipalities was organized here recently. Delegates were present from Moosomin and Wapella on the east to Maple Creek on the west, and from Prince Albert on the north to Cornduff on the south.

ENGLAND, Manchester.—The deepening of the tidal section of the large Manchester Ship Canal, between Eastham and Latchford, will be completed by October 1. This means that there will be a depth of twenty-eight feet, compared to the former depth of twenty-six feet. The work of deepening the other sections of the canal is progressing favorably, and it is expected that the whole work will be completely finished next year. Meanwhile, there is no interference with the traffic up and down the canal, which has shown a considerable increase through the year.

A Cliplet

"I sent you plans for the portecochere and grand entrance," began the architect who was building Nuritch's palatial residence. "Yes," interrupted Nuritch, hotly, "and what do you mean by putting 'Salve' over the door? Don't you try to run in no patent medicine ads on me!"—*Exchange*.

Personals

COLLINS, JOHN M., Chief of Police of Chicago, Ill., in the most sweeping order issued in years, discharged Inspector Nicholas Hunt, head of the Hyde Park police division, and Lieut. F. L. Smith, and recommended them for pensions; promoted Capt. Peter M. Kelly, of the Warren avenue district, to inspector; transferred eight captains and eight lieutenants; suspended Inspector Patrick J. Lavin, head of the Chicago avenue district, pending the investigation of charges, and made numerous other changes in the department.

COUTCHER, JOHN, Mayor of Kelley's Island, Ohio, dispersed an angry mob of quarry strikers last week alone and unaided, with the exception of his trusty rifle, with which he clipped the heel of a shoe of one, shot through the trousers' leg of another, stung the air of a third, and put bullets so close to others that they beat a hasty retreat.

DAVIS, J., Consulting Engineer and Under Secretary for Public Works in New South Wales, is in this country, and has had several interviews with Commissioner H. L. West, of the District of Columbia, regarding the municipal government of the National capital. Six Australian states recently adopted a Federal constitution, by which provision was made for a Federal capital to be under Federal control, and modeled after Washington in other respects.

DRUGAN, WILLIAM FRAZIER, Chief of Police of Dedham, Mass., recently celebrated his twenty-eighth anniversary as head of the department, and received the congratulations of the officials of surrounding towns, as well as the officials and townspeople of Dedham.

EDENFIELD, R. J., of Augusta, Ga., has been elected a member of the Board of Police Commissioners, to fill the vacancy caused by the resignation of Thomas W. Alexander, and will, at the January meeting of the board, be made chairman.

JONES, COL. R. HENRY, Robert Johnston and Col. Harry Hodges, members of the recently-created Board of Control of Norfolk, Va., left recently to make a study of the municipal government of western cities where it applies to the duties of Boards of Commissioners. Columbus and Cleveland, Ohio, and St. Paul, Minn., will be among the cities visited.

KELLOUGH, MAJ. GEORGE E., was recently inducted into office as Mayor of Walla Walla, Wash., succeeding Mayor Gilbert Hunt; Dr. A. E. Braden relieved Dr. Bert Thomas as Health Officer, and J. B. Dunham and Eugene Yausick succeeded D. H. Cox and Fred W. Martin as Councilmen.

LINDEN, LAMAR, has been engaged to prepare plans for a municipal electric-light plant for Lynchburg, Va., to cost about \$40,000.

McCABE, H. C., City Attorney of Vicksburg, Miss., has tendered his resignation on account of his health and the pressure of private practice.

MEADE, DANIEL, Civil Engineer, of Chicago, Ill., has been engaged to prepare plans and supervise the work of improving the water system.

MARTIN, N. E., formerly Assistant City Engineer of Shreveport, La., has been elected to succeed Mr. John M. Dorch, who recently resigned to engage in private practice.

NEELEY, SHAW F., Mayor of Leavenworth, Kan., four terms, and United States Marshal for Kansas under President Cleveland, passed away recently at his home.

PARSONS, ARCHIBALD L., Civil Engineer, U. S. Navy, has been assigned to duty as Assistant Engineer to Civil Engineer Fred Thompson, officer-in-charge of the improvements and maintenance of the plant at the Charlestown, Mass., navy yard. Civil Engineer Frank O. Maxson succeeds Mr. Parsons at the naval station at Cavite.

SYNDER, ANDREW, former member of the Minneapolis, Minn., Police Department, has been appointed Chief of Police of Aberdeen, S. D., vice Chief of Police Christensen, who was dismissed by Council against the wishes of the Mayor.

Some Unusual Fires

BERRIEN CENTRE, MICH.—General store of J. A. Rutter burned, August 14. Burglars set fire to store and attempted to destroy village. Damage, \$700.

EVANSVILLE, IND.—Fire Chief Dunlevy's residence slightly burned. Cause, gasoline stove. Chief says, while the stoves are generally rated low as causes of fire, in his city, they cause two a week.

SANDFORD, ME.—Goodwin's box factory and other buildings burned, August 11. Inadequate water pressure at hydrants. Fire started in boiler room. Damage, \$30,000.

PHILADELPHIA, PA.—Rittenhouse restaurant slightly burned, August 9. Damage, \$800.

POTTSVILLE, PA.—Five houses, including one occupied by ex-Councilman Patrick Kearns, burned, August 7. Inadequate water pressure. Cause, overheated stove. Damage, \$5,000.

UNDERHILL, VERMONT.—Several stores and residences burned, August 13. No fire protection. Shower put out the fire. Cause, overturned lamp. Damage, \$15,000.

NOTES—QUERIES—
CORRESPONDENCE

Decarie Manufacturing Company,
23 South Second St.,
MINNEAPOLIS, August 10, 1906.

Editor MUNICIPAL JOURNAL AND ENGINEER,
Flatiron Building, New York City.

DEAR SIR:—In your issue of May 16 an article appears headed "Electric Lighting Without Coal," covering pages 453, 454 and 455. The second paragraph reads as follows:

"In 1900 there was installed a Decarie incinerator for destroying the wastes. This was operated for six months under contract with the builders, but because of unsatisfactory performance and complaints of nuisance, its use was discontinued in 1901 and the waste was again dumped on vacant grounds."

This statement is incorrect, and does myself, as well as the Decarie Manufacturing Company, of which I am a member, an injustice, and in fairness to the public, your publication, the Decarie Manufacturing Company, and myself personally, I therefore ask you to publish this article.

In 1900 I did install a Decarie incinerator, the first one which I ever built, in Westmount, Canada, and took a six-months contract with the town of Westmount for incinerating their garbage and combustible refuse, etc. I fulfilled my contract with them, never made application for a renewal of it, and during the time I was operating the plant I never received, directly or indirectly, in any way, shape or manner, a notification of any kind from any person or persons, either officially or unofficially, that the plant was a nuisance. During the time of operation a number of officials from the city of Minneapolis came to Westmount and witnessed the operation of the plant, and it was upon the results there shown that the city of Minneapolis adopted my system, and it was upon the successful operation of the Minneapolis plant that I formed the Decarie Manufacturing Company with a number of Minneapolis gentlemen. In the last five years the Decarie Manufacturing Company has placed a number of plants throughout the United States, all of which I can truthfully say are in successful daily operation. While it is true that quite a number of improvements have been made in connection with the Decarie system of incineration, it is a fact, nevertheless, that the fundamental principle, as originally invented and planned by me, has never been altered.

Inasmuch as your journal has expressed itself for fair play, and from the fact that you have done my company, as well as myself, an injustice, though innocently, in permitting the above-mentioned paragraph to be inserted in the article referred to, I think it is only fair and right that you should publish this letter.

F. L. DECARIE.

Editor MUNICIPAL JOURNAL AND ENGINEER,
Flatiron Building, Madison Square, New York City.

DEAR SIR:—A number of the public officials and all of the newspapers of my city are commencing to discuss the advisability of establishing a municipal lighting plant, at the expiration of the present contract for lighting the city—April, 1910.

Estimates of the cost of constructing a lighting plant are now being prepared under the direction of the Supervisor of Lighting, and members of the Board of Public Improvements are quoted in the papers as advocating various schemes whereby either a reduction from the present rate can be secured, under long-term contracts, or a large saving can be effected through a municipal plant.

You can, I have no doubt, and will, I hope, inform me where I can readily and promptly secure reliable data as to the cost of establishing and maintaining a municipal lighting plant under the existing conditions here; that is to say, where the power must be generated through the use of coal.

Yours very truly,

J. Y. P.

ANSWER.—There are two reliable sources of information regarding capital investments and cost of service of electric lighting plants, both private and municipal. They are the Fourteenth Annual Report of the Commissioner of Labor, 1899; Water Gas and Electric Lighting Plants, and reports of the Board of Gas and Electric Light Commissioners of the Commonwealth of Massachusetts for the year ending June 30, 1905. From the former report you may learn that the largest municipal electric lighting plant at that time was rated at over 3,000 and under 5,000 horsepower. The total capital invested was \$733,181, of which 3.89 per cent. was for preliminary expenses, 1 per cent. for land, 3.97 per cent. for buildings, 63.69 per cent. for steam power, 7.17 per cent. for electric power, and 21.27 per cent. for distributing currents and apparatus.

ADVANCE AND WEEKLY CONTRACT NEWS

Relating to Municipal and Public Work—Street Improvements—Paving, Road Making, Cleaning and Sprinkling—Sewerage, Water Supply and Public Lighting—Fire Equipment and Supplies—Buildings, Bridges and Street Railways—Sanitation, Garbage and Waste Disposal—Police, Parks and Miscellaneous—Proposals and Awards

The Municipal Journal and Engineer wishes to obtain, at the earliest possible moment, advance and reliable information respecting all work projected. Any items sent us will be greatly appreciated. On request, copies containing such information will be mailed to you.

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STREET IMPROVEMENTS

Mobile, Ala.—Bids will be received, September 1, for \$195,000 5 per cent. 15-year paving bonds.—Pat J. Lyons, Mayor.

Batavia, Ill.—Bonds, \$16,000, have been issued to construct cement walks.—G. H. Kain, Village Clerk.

Fairview, Mich.—The Cleveland Trinidad Paving Company estimates the cost of paving Jefferson avenue at \$26,000, for which a special assessment will be made; bonds will be sold at once.

Rensselaer, N. Y.—Nearly \$50,000 is available for paving improvements, but only about \$20,000 will be expended this year; the City Engineer is preparing plans and estimates for macadamizing Riverside avenue from the end of the asphalt pavement to the city line, also Columbia turnpike from the end of the brick pavement to the State road leading out to the end of East Greenbush.

Cincinnati, O.—Bids will be opened, September 8, for the purchase of village bonds, aggregating \$7,800, for street improvements in Readins.—Joseph R. Vidder, Village Clerk.

Dennison, O.—Bids will be received, August 27, for \$29,000 6 per cent. street improvement bonds.—Charles B. Jeffries, City Clerk.

Findlay, O.—Bonds, \$18,233, are to be issued for paving East Lincoln street and \$15,000 for paving West Lincoln street.

Mansfield, O.—Bids were received, August 25, for \$4,000 5 per cent. street improvement bonds.—William F. Boegel, Mayor.

New Philadelphia, O.—The ordinance authorizing \$5,000 bonds for street improvements has passed under suspension of the rules.—A. S. Keplinger, City Clerk.

Younstown, O.—Bids will be opened, September 3, for \$8,490 Bresett street paving bonds, \$9,375 Delason avenue paving bonds, \$3,650 Wick avenue paving bonds, \$2,790 School street paving bonds, \$45,500 Oakhill avenue paving bonds, \$9,820 Grant street paving bonds and \$730 Foster street paving bonds.—William I. Davies, City Auditor.

Knoxville, Tenn.—Plans and estimates have been prepared for improving certain streets, to cost \$45,000; bids are invited.—Capt. U. S. Crozer, City Engineer.

PROPOSED WORK

Highland Park, Ill.—The City Council has approved plans for paving Deerfield avenue; also Hickory and McGovern streets.

Springfield, Ill.—The Local Improvement Board is considering plans for paving Dodge street.

Elkhart, Ind.—A contract is to be let for 7,000 square yards of brick paving.—Address City Clerk.

Indianapolis, Ind.—St. Clair and Alabama streets are to be paved with bituminous macadam, Noble street with brick, and cement

walks are to be built on a number of other streets.

Terre Haute, Ind.—Crawford street will be paved with brick on a concrete foundation.—Board of Public Works.

Des Moines, Ia.—Council has decided to pave a large number of streets with asphalt.

Topeka, Kan.—Plans have been completed for \$20,000 worth of brick pavement to be laid at once.—Address City Engineer.

Covington, Ky.—Council is preparing to pave about 12,000 square yards of certain streets with brick on concrete foundation.

Manistee, Mich.—Council has decided to pave Maple street with macadam or bituminous; bids will shortly be invited.

St. Joseph, Mich.—Council is arranging to pave certain streets with brick.

Jackson, Miss.—Council is arranging to lay cement walks in certain streets.

Ashland, O.—The Street Commissioners have been authorized to build a 12-foot wide crushed limestone sidewalk and gutters in Union street.

Canal Dover, O.—Wooster avenue is to be graded, curbed and paved with brick, vitrified block or asphalt block.—Alfred Mydeger, City Clerk.

Delaware, O.—Noble street will probably be paved with macadam.—F. D. King, City Clerk.

Kenton, O.—Council has passed ordinances for paving West Columbus and Market streets; South Leighton street will also be paved.

Nevada, O.—The business section of the village is to be paved; the roadbed will be prepared this fall and the paving done in the spring.

Piqua, O.—The Street Committee has recommended the repaving of Main and other streets by resurfacing with brick; a \$9,700 bond issue has been authorized for purpose; cement gutters are to be built on a number of streets.—John Anderson, Chairman.

Richwood, O.—Stone sidewalks are to be constructed in a number of streets.—R. G. Jordan, City Clerk.

Troy, O.—Council is considering the building of sidewalks, curbs and gutters in Drury Lane.

Wapakoneta, O.—North alley will probably be paved with vitrified brick or block.—Charles E. Fisher, City Clerk.

Wellsville, O.—Fifteenth street will be paved this season or early next season.

Wooster, O.—Legislation is being considered for paving College avenue; plans are being prepared by City Engineer Eberhardt.

Dallas, Tex.—The property owners on Lane street have petitioned Council for brick paving.

Milwaukee, Wis.—Portions of Wells street will be paved with cedar block pavement.—Board of Public Works.

Racine, Wis.—The City Council has ordered the awarding of a contract for paving La Salle street with brick.

CONTRACTS TO BE AWARDED

Chesterfield, Ill.—Bids will be received, August 22, for constructing cement walks.—H. D. Mann, Village Clerk.

Evanston, Ill.—Bids were received, August 16, for paving with macadam certain portions of Reese avenue, Hartzell street and Park place; also for paving certain alleys with brick, according to specifications.—John T. Barker, President of the Board.

Hamburg, Ill.—Bids were received, August 20, for constructing \$2,880 square feet of granitoid walk.—Joseph Day, City Clerk.

Bluffton, Ind.—The City Clerk will receive bids, until August 24, for constructing four miles of cement sidewalk and curb.—Edmond G. Elliott, City Clerk.

Burlington, Ia.—Bids were received, August 20, for improving portions of Washington street by paving with brick on concrete foundation.—F. J. Winters, City Clerk.

Davenport, Ia.—Bids were received, August 14, for improving Prospect street with macadam pavement.—Thomas Murray, City Engineer.

Donaldsonville, La.—Bids will be received, August 22, for paving Mississippi street and Railroad avenue, requiring approximately 20,000 yards of pavement.—Charles Maurice, Mayor; William Mackintosh, Engineer.

St. Paul, Minn.—Bids were recently opened for cement curbing along Selby street.

Vicksburg, Miss.—Bids will be received, September 3, for paving and sewerage certain portions of Washington street, according to plans and specifications.—H. J. Trowbridge, City Clerk.

New York, N. Y.—Bids will be received, August 27, for constructing parkways and regulating and repaving with asphalt block pavement on concrete foundation the roadway of Broadway, from 155th street to 169th street.—John F. Ahearn, President, Borough of Manhattan.

New York, N. Y.—Bids will be received, August 30, for tile work at the westerly or Manhattan end of the Brooklyn bridge.—John H. Little, Deputy and Acting Commissioner of Bridges.

Akron, O.—Bids will be opened, August 24, for grading, curbing and paving Vine and Brown streets; the ordinance for paving Long street has passed Council.—C. H. Watters, Secretary, Board of Public Service.

Archbold, O.—Bids were opened, August 20, for paving portions of Hulland street.—O. W. Taylor, Clerk of Board.

Cleveland, O.—Bids will be opened, August 28, for paving West Boulevard with macadam.—A. R. Callow, Secretary, Board of Public Service.

Findlay, O.—Bids will be opened, August 23, for paving East Crawford street, according to plans and specifications.—J. C. Edie, City Clerk.

Lorain, O.—Bids will be opened, September 4, for paving the west approach to the Erie avenue bridge.—O. E. Haserodt, Elyria, Auditor, Lorain County.

Middletown, O.—Bids will be received, August 24, for constructing cement walks; approximate estimates, 7,000 linear feet of curbing, 30,000 square feet of walks, 550 linear feet of cross gutters and 90 cubic yards of excavation.—N. G. Ogelsby, Clerk, Board of Public Works.

Youngstown, O.—James P. McCarren is low bidder on paving West Federal street and Kennedy Brothers on Center street; contracts will shortly be awarded.

Norfolk, Va.—Bids were opened, August 13, for constructing granolithic sidewalks on the grounds of the Jamestown Exposition Company.

Charleston, W. Va.—Bids were opened, August 16, for grading, paving and curbing portions of Alderson, Dunbar and Lovell streets, according to plans and specifications.—J. F. Hudson, Clerk of the Board.

Superior, Wis.—Bids were received, August 20, for constructing brick pavement in several alleys; also for macadamizing certain streets, according to plans and specifications.—B. M. Caddock, Clerk of Board.

CONTRACTS AWARDED

Anniston, Ala.—The city has let the contract to the Southern Bitulithic Company to pave Noble street.

New Haven, Conn.—Council has awarded the Warren Brothers Company, Boston, Mass., contract for constructing 1,200 square yards of pavement.

Jamestown, N. Y.—The Warren Brothers Company, Boston, Mass., have contract for 15,421 square yards of bitulithic.

Oswego, N. Y.—M. F. Dillard, of Albany, has secured a \$22,000 paving contract at Ballston Springs; Pittsburg block will be used.

Ashland, O.—Wilde & Davidson, of Akron, have been awarded the contract for paving Walnut street.

Findlay, O.—Baldwin Brothers & Graham of Cleveland, have the contract for paving West Lincoln street with Bolens block on a concrete foundation, at \$14,000, and C. B.

Hall & Son will pave East Lincoln street with Massillon block on a concrete foundation, at \$16,500; operations will begin next month.

Fremont, O.—George Kinney and the Modern Construction Company have been awarded contracts for paving four of the leading streets at \$40,000.

Marietta, O.—Putnam & Price have been awarded contract for paving Fort street, using Marietta brick and Bedford stone curb.

Toledo, O.—Garry Bros. are low bidders on paving Wakeman street, at \$8,000.

Urichsville, O.—Downs & Campbell, of Canton, have the contract for paving Second street in Denison, at \$25,000.

Youngstown, O.—The Barber Asphalt Company will pave Elm street, at \$1.85 per square yard.

Philadelphia, Pa.—The Standard Bitulithic Company, of New York, will construct 2,330 square yards of bitulithic at the U. S. Army depot.

Amherst, N. S., Can.—The Warren Bituminous Company, of Toronto, Ont., Can., has been awarded contract for 9,000 square yards of paving at \$2.75 per square yard.

ROADS

Marion, Ind.—Bids are invited for \$4,000 Grant County gravel road bonds.

Deer River, Minn.—Bids will be received, August 29, \$12,000 6 per cent, one to twelve year road bonds.—Alexander L. Reid, Town Clerk.

Clayton, Mo.—An election will be held, September 8, to pass on question of bonding St. Louis County to secure money for good roads.

Cleveland, O.—An ordinance has passed Council providing issue of \$6,000 bonds for paving portions of Stearns road.—Peter Witt, City Clerk.

Amherst, Va.—The County Board is considering issue of bonds for improving the county roads.—H. C. Joiner, County Auditor.

Richmond, Va.—The citizens of Henries county will vote on question of issuing \$30,000 bonds for building good roads.

PROPOSED WORK

St. Paul, Minn.—The State Highway Commission is considering plans for building roads in thickly settled districts.

Alexandria Bay, N. Y.—The Alexandria Bay-Clayton Boulevard Company will construct a boulevard between the two cities, to cost \$100,000; bids will be advertised in the fall and work started next spring.—Address O. G. Staples.

Steubenville, O.—It has been decided to pave the pike between Mingo and Steubenville during the coming year.—Address County Commissioners.

CONTRACTS TO BE AWARDED

Albany, N. Y.—Bids will be received, August 27 and 28, for road improvements costing \$2,500,000, in the following counties: Montgomery, Cortland, Jefferson, Delaware, Onondaga, Fulton, Oneida, Oswego, Orange, Rensselaer, Tompkins, Madison, Chemung, Cayuga, Orleans, Ontario, Dutchess, Clinton, Nassau, Saratoga, Niagara, Columbia and Rockland; contracts for improving highways outside the limits of a city or incorporated village are exempted from the requirement of the eight-hour law.—Henry A. Van Alstyne, State Engineer and Surveyor.

Poughkeepsie, N. Y.—Bids will be received, August 28, for improving Rhinebeck-Hyde Park road, 3.26 miles, and Violet avenue, East Park road, 1.99 miles, according to plans and specifications.—Henry A. Van Alstyne, State Engineer and Surveyor.

Columbus, O.—Proposals will be opened, August 29, for building a highway under provisions of the new Ohio law.—Sam Huston, State Highway Commissioner.

Upper Sandusky, O.—Bids will be opened, September 14, for grading and stoning the Eden township road, the Antrim township road, and the Jackson road, two miles in all.—J. N. Traxer, Auditor.

Harrisburg, Pa.—Bids were opened, August 10, for roads in Franklin and York counties, also for extending the river road in Cumberland county; the bidders for a section of road 10,000 feet long, in Abington and Cheltenham townships and Jenkintown borough, Montgomery county, were John McMenamy, Philadelphia, \$12,442.50, and James W. Ball, Wynnote, \$9,090.20.—Address Highway Department.

SEWERAGE

Woodlawn, Ala.—The proposition to issue \$15,000 5 per cent. 20-year sewer bonds carried.

Douglas, Ariz.—Council will receive bids, September 14, for \$75,000 sewer bonds.—F. A. Daley, City Clerk.

Eatonton, Ga.—The citizens have voted to issue bonds for sewers.

Peru, Ind.—Plans are being prepared to extend the sewer system.

Canton, Miss.—Council is taking steps toward issuing bonds for a sewer system.

Ashland, O.—Bids will be opened, September 1, for the purchase of \$28,000 ditch bonds.—G. W. Walter, Chairman, Board of County Commissioners.

Connaut, O.—Bids will be opened, September 3, for bonds aggregating \$10,500, bearing interest at 5 per cent., proceeds to be used for sewer construction.—H. T. Culp, City Auditor.

Lorain, O.—Council has authorized a \$10,000 bond issue for constructing sewers in Highland, Penfield, Grove and Fox avenues.

Marietta, O.—Bonds, \$4,011.81, have been issued for constructing sewers.

Youngstown, O.—Bids will be received, September 3, for \$900 Superior street sewer bonds, \$1,120 Foster street sewer bonds and \$376 Petrie street sewer bonds.—William J. Davies, City Auditor.

Norfolk, Va.—The Seventh Ward Local Board is considering proposed sewer system for ward, \$140,000 having been realized from recent bond sale for improvements; plans and specifications are being prepared by the City Engineer.

PROPOSED WORK

Springfield, Ill.—An 18-inch sewer may shortly be built in Williams street.

Waukegan, Ill.—The City Council has passed an ordinance for constructing a concrete sewer; estimated cost, \$100,000.

Detroit, Mich.—Bids will shortly be asked for building vitrified pipe sewers in several alleys.

Hudson, Mich.—Council has voted \$6,000 for new sewers.

Akron, O.—Council is considering the construction of a 25-inch sanitary sewer to replace the 15-inch structure between Market street and Cuyahoga river, the present sewer being too small.

Ashland, O.—Council is considering the construction of a sewer in Arthur street.

Bowling Green, O.—The construction of a sewage disposal plant is recommended by the State Board of Health.

Elyria, O.—Sewers are to be laid in part of District No. 1.—Frank R. Fauver, City Clerk.

New Philadelphia, O.—Bids are invited for extending the storm sewer in North Eighth street.—A. S. Kepplinger, City Clerk.

Massillon, O.—Sanitary sewer is to be built in East Main street and Jarvis avenue.—Charles J. Remley, City Clerk.

Massillon, O.—The City Board Hospital Association will expend \$6,000 in improving the sewage disposal plant.—E. G. Bradley, Columbus, Engineer.

Medina, O.—A sewer system is to be constructed; plans are being prepared by E. G. Bradley.

Wauseon, O.—Council is considering building a continuation of the sanitary sewer on Third street.

Youngstown, O.—Council is considering the construction of a sewer on Raven avenue.

Wheeling, W. Va.—Council has arranged for sewerizing 900 feet between the subway and Shad's crossing, to cost \$1,000.

Brantford, Ont., Can.—The city is preparing to expend \$30,000 in improving the sewerage system.

Edmonton, Alta., Canada.—The City Council has awarded contracts for extending sewers; estimated cost, \$200,000.

Toronto, Can.—Plans are being considered for constructing a sewerage system, to cost approximately \$1,000,000.

Picton, Prince Edward Island.—It is proposed to construct a sewage disposal plant.

CONTRACTS TO BE AWARDED

Springfield, Ill.—Proposals were opened, August 4, for laying 18-inch vitrified pipe sewers in Monroe and Jefferson streets.—Board of Local Improvement.

Davenport, Ia.—The City Clerk opened bids, August 14, for constructing sewer system in several districts.—Thomas Murray, City Engineer.

Paducah, Ky.—Bids will be received, August 25, for constructing about seven miles of combined sanitary and storm sewer, according to plans and specifications.—D. A. Yeiser, Mayor.

Flint, Mich.—Bids were received, August 20, for constructing sewers in several streets.—Address D. E. Newcomb.

Menands, N. Y.—Bids will be received, August 27, for repairs to the sewers and drains in the Fifteenth School District of the town of Colonie, Albany county.—John A. McMahon, James A. Burns, Thomas C. Murray, Commissioners; Horace Andrews, Albany, Engineer.

Findlay, O.—Bids will be received, August 23, for constructing a sewer in Hurd avenue, according to plans and specifications.—J. C. Eddie, City Clerk.

Toledo, O.—Bids will be opened, August 23, for constructing main sewer No. 984, according to plans and specifications.—Reynold Bort, Secretary, Board of Public Service.

Guthrie, Okla.—Bids were received, August 16, for constructing sewers in District No. 32,

according to plans and specifications.—F. Seixas, City Clerk.

Wales, Wis.—Bids will be received, August 21, for laying sewers and constructing a sewage disposal plant at the State Sanatorium.—M. J. Tappins, Secretary, State Board of Control, Madison.

CONTRACTS AWARDED

Chicago, O.—McAlinus Brothers, of Akron, have the contract for building the Dale avenue sewer with concrete, for \$4,081.

Greenville, O.—Frank Roll, John Bey, M. E. Stoyer, B. F. Richardson and E. A. Fishbaugh, have contract for constructing the Kelch lateral ditch, at approximately \$16,500.

WATER SUPPLY

Grand Junction, Col.—The citizens have voted issue of \$300,000 bonds to build a water system in order to secure a clear water supply from the mountains.

Kewanee, Ill.—Bids were received, August 18, for \$6,000 5 per cent. waterworks bonds.—Charles E. Mulligan, Clerk.

Moorhead, Ia.—The citizens have voted \$5,000 bonds for water supply for fire protection; work will be commenced as soon as contracts can be let.

Crowley, La.—Council has found it necessary to pass another ordinance to establish the legality of the \$100,000 bonds, recently issued for waterworks.

Fairview, Mich.—Bids are invited for \$25,000 water bonds.

Bowbells, N. D.—Bonds, \$12,000, have been voted for water and sewer systems.

Barrington, O.—Bonds, \$7,682, have been issued for improving the city waterworks.

Ironton, O.—The city will probably be bonded in the sum of \$75,000 for building a waterworks system; the big main and reservoir alone will cost \$50,000.

Lorain, O.—Council has decided that three additional filters for the waterworks plant cannot be constructed until bids are advertised; this will be done at once.

Cle Elum, Wash.—Bonds, \$50,000, have been voted to establish a water system.

MacLeod, Alta., Canada.—The cost of the proposed new water system will be \$95,000.—N. F. Brown, Town Clerk.

Nashville, Tenn.—Preliminary plans are complete for installing a \$150,000 engine at the waterworks pumping station.

PROPOSED WORK

Barrington, Ill.—The Village Board has approved an ordinance for laying 1,400 feet of additional water mains; bids will shortly be issued.

Sulphur, I. T.—Bonds, \$5,000, have been voted for a water supply.

Fort Madison, Ia.—The Lee County Supervisors are considering the installation of a water system at the County Infirmary.—E. L. Naumann, Chairman.

Houghton, Mich.—Council has recommended the purchase of a new pump for the pumping station; also the installation of 16-inch mains from the pump house.

Marquette, Mich.—It is expected 600 meters will be installed by fall.—Board of Fire and Water Commissioners.

Nebraska City, Neb.—Council is considering proposal to establish a municipal water and light plant.

Cleveland, O.—Council will appropriate \$12,000 to purchase a water tank and pumping equipment for the Infirmary Department.—Peter Witt, Clerk.

Lebanon, O.—The Council is considering the installation of a waterworks plant; the people will vote on issue of bonds for purposes in November.—C. B. Wilkerson, Mayor.

Lorain, O.—Bids are invited for the completion of the filter house.—Board of Public Service.

Lawton, Okla.—A survey is to be made preparatory to extending the waterworks system.—George L. Warner, Engineer, U. S. Government Survey.

Baddock, Pa.—The Waterworks Committee will investigate sinking of additional wells to improve the water supply.

Calgary, Alta., Can.—Work will soon begin on the water system, for which plans have been approved.

Lawton, Okla.—A survey is to be made if about to build waterworks at Lacombe, to include a pipe-line.

Haileybury, Ont., Can.—A water system will be built; the supply will be obtained from springs.

New Liskard, Ont., Can.—The town will shortly install a water system, the supply to be obtained from Watson's Falls.—Dr. C. A. Hodgetts, Secretary of Provincial Board of Health, Toronto.

Stratford, Ont., Can.—Plans are being considered for extending the water system at a cost of \$18,000.—Alderman Nltd, Chairman.

Picton, Prince Edward Island.—Plans are being prepared for installing waterworks.

CONTRACTS TO BE AWARDED

Washington, D. C.—Bids will be received, September 1, for furnishing 600 tons of eight-inch cast-iron water pipe.—Henry L. West, John Biddle, Commissioners.

Washington, D. C.—Bids will be received, September 17, for building the Cold Springs dam, near Hermiston, Ore., including about 694,000 cubic yards of earth and gravel excavating, 3,110 cubic yards of rock excavating, 3,110 cubic yards of concrete and 35,000 cubic yards of riprap and rock filling.—Thomas Ryan, Acting Secretary, Interior Department.

Baltimore, Md.—Bids will be received by the Board of Awards, care of Harry F. Hooper, City Register, August 22, for boring an artesian well at Riverside Park and installing therein a pump.—E. Clay Timanus, President, Board of Awards; J. V. Kelly, Secretary.

Columbus, O.—Bids will be opened, August 30, for building a dam 600 feet long across the Miami river, two miles north of Midway town.—Charles E. Perkins, Chief Engineer, State Board of Public Works.

Dayton, O.—Bids were opened, August 17, for furnishing and laying cast-iron and water pipe specials.—T. N. Bexton, President of Water Board.

Malta, O.—The date for opening bids for constructing waterworks is September 4.

Richmond, Va.—The Council Committee on Water received bids, August 14, for furnishing 250 five-eighths-inch disc meters, and their connections.—Charles E. Bolling, Superintendent.

La Fargo, Wis.—Bids were received, August 17, for the balance of material required for waterworks construction, to include a 20-h.p. gasoline engine, two large hydraulic rams, a 50,000-gallon reservoir, 18 hydrants, valves, pump, etc., and laying 7,400 6 to 8-inch cast-iron pipe, and 8 to 18-inch vitrified pipe.—George C. Chambers, Village Clerk.

Wales, Wis.—Bids were opened, August 21, for laying water pipe and constructing a 50,000-gallon concrete reservoir and furnishing an electric or steam-driven deep well pump for the State Sanatorium.—M. J. Tapkins, Secretary, Board of Control, Madison.

PUBLIC LIGHTING

Canon City, Col.—The Colorado Light & Power Company has acquired a controlling interest in the La Bella Mill, Water & Power Company of Goldfield, which for several years has been one of the largest distributors of electric power in the Cripple Creek district, supplying much of the motive force used in mining operations and for lighting purposes in Cripple Creek, Victor and surrounding towns. The absorption will necessitate the enlargement of the Canon City plant; the capacity will be doubled.

Boston, Ga.—The citizens have voted \$1,000 bonds for a municipal electric-light plant.

Lumpkin, Ga.—Bids are invited for \$15,000, 5 per cent, electric-light and school bonds.—W. L. Madre, City Clerk.

McComb, Miss.—The citizens have voted to issue \$45,000 bonds for municipal ownership of the electric-light plant.

Galion, O.—Council will issue bonds to improve the electric-light plant.

Paulding, O.—Council received no bids for \$13,520, 4 per cent., electric-light bonds, offered for sale July 30; they will be readvertised.

Steubenville, O.—Council is considering proposition of Joseph May to furnish water to town of Follansbee; a 25-year franchise is asked for B. L. Hirschfeld and Harry L. May.

Charlottesville, Va.—Council declined to pass, over the Mayor's veto, proposition to lease city gas plant to Marcus R. Williams and Associates, Baltimore, Md., but voted to submit matter to voters at the November election.—E. I. Carruthers, Clerk of Council.

Seattle, Wash.—Council has passed an ordinance calling an election to vote on issue of \$427,000 bonds, for a municipal lighting plant.

Huntsville, Mo.—The Huntsville Light and Power Company has been incorporated with a capital stock of \$75,000.—Charles A. Valette, Cameron F. Roberts, and others, incorporators.

PROPOSED WORK

Bloomington, Ind.—The Railroad Committee recommends the granting of a 20-year franchise to furnish 400 inclosed arc lights for the city, to the Illinois Traction Company, holding corporation of the Bloomington and Normal Railway and Light Company.

Madisonville, Ky.—Estimates are being prepared for erecting a municipal electric-light plant.—N. C. Morton, Consulting Engineer; James L. Brown, City Clerk.

Cincinnati, O.—The East Fork Heat, Light and Power Company has been incorporated with capital \$10,000, to develop heat, light and power from the East Fork of the Little Miami river.—Walter C. Taylor, Eugene O. Doole, John N. Sullivan, and others, incorporators.

Mitchell, S. D.—The plant of the Mitchell Gas Company is to be enlarged; a new engine, boiler and dynamo will be purchased.

Sevierville, Tenn.—An electric plant is to be built two miles from Sevierville, to be operated by water power, and the electricity to be transmitted for lighting the town.—W. T. Walker and M. B. McMalban.

Ogden, Utah.—An inspection has been made of the Spring canyon with a view to constructing a \$100,000 power plant by the Salt Lake and Ogden Railway Company.—Simon Bamberger, President and General Manager; E. A. Vail, Chief Engineer.

Eau Claire, Wis.—Council has granted a lighting and power franchise to the Chippewa Valley Electric Railway Company; a new plant will be installed and power transmitted from Red Cedar river for manufacturing purposes.

CONTRACTS TO BE AWARDED

Clay Center, Kan.—Bids were received, August 15, for a new electric-light plant.—W. K. Palmer, Kansas City, Mo., Consulting Engineer; George U. Hanna, Mayor.

Gibbon, Minn.—Bids were opened, August 18, for constructing an acetylene gas plant, in accordance with plans and specifications.—J. F. Johnson, Engineer; U. F. Lammers, Village Recorder.

Le Seuer, Minn.—Bids will be received for furnishing a dynamo and exciter, 90 to 100 k.m., 60-cycle single phase, 1,100 volts, 7,200 alternations, belted connection.—O. J. Parker, Acting Clerk.

Brooklyn, N. Y.—Bids will be opened, August 30, for framing combination gas and electric lighting fixtures in parade ground building, Prospect Park.—Moses Herrman, President of Park Commissioners.

Oakley, O.—The Cincinnati Planer Company, Brick street, near Harrison avenue, Cincinnati, will let contract about January 1, for a new electric-light plant at Oakley, costing about \$100,000.

Eagle River, Wis.—Bids will be received, August 25, for constructing a municipal electric power plant complete, including dam across the Wisconsin river, four miles of transmission line, and waterworks pumping equipment; bids for separate parts will not be considered.—Frank Beardsley, Town Clerk.

CONTRACTS AWARDED

Noblesville, Ind.—The Noblesville Hydraulic Company has been awarded a 25-year franchise to furnish electric-lights to the city; a dam costing \$125,000, to generate 2,000 h.p., will be constructed.

Flint, Mich.—H. R. Loranger, of Flint, and Robert O. Hart, of Flushing, have renewed franchise to furnish electric-light and power; a plant will be erected.

Alexandria, Va.—Edward E. Mandeville, of Philadelphia, has been granted franchise to furnish electricity to the city; a \$75,000 plant will be erected at once.

FIRE EQUIPMENT AND SUPPLIES

Chicago, Ill.—The Hamilton Park Improvement Association has petitioned Council to improve the fire protection in districts between 60th and 70th streets, Hamilton Park.—James Horan, Fire Marshal.

Rockford, Ill.—The City Council will advertise at once for bids for constructing the new fire station.

Burlington, Ia.—Plans are being prepared for a \$30,000 fire station to be erected on Valley street.

Laurene, Kan.—The Fire Department Committee has petitioned Council for the purchase of additional fire apparatus.

Lynn, Mass.—The Merchants and Manufacturers' Association has petitioned Council to purchase two first-class fire engines.

Columbus, O.—An engine house is to be erected at Parsons and McCord avenues; estimated cost, \$14,000.

Youngstown, O.—A new engine house will be erected shortly.—Board of Public Works.

Johnstown, Pa.—An ordinance is before Council providing issue of \$50,000 bonds to establish a paid Fire Department.

Grand Rapids, Wis.—Plans are being prepared for a new engine house.—Address City Engineer.

PROPOSED WORK

East Hartford, Conn.—The Fire Committee recommends the establishment of a fire alarm system and the purchase of a hose wagon with ladders and fire hooks.

Jacksonville, Fla.—The Fire Department has petitioned for the erection and equipment of an additional fire station.—P. A. Digman, Chairman.

New Orleans, La.—Council Committee on Public Buildings proposes to build a new engine house in District No. 7.—Mayor Behrman.

Dolgeville, N. Y.—The Village Council is taking steps for establishing a fire alarm system.

Cincinnati, O.—The Fire Department will readvertise for the purchase of 10,000 feet of hose.

Sharpsburg, Pa.—Bids were opened, July 31, for purchasing one new hose carriage sufficient to carry 800 feet of 2 1/2-inch hose, according to plans and specifications.—A. H. S. Black, Borough Clerk.

Providence, R. I.—Council has appropriated \$20,000 for the purchase of five new fire engines.

Maryville, Tenn.—Council is taking steps to secure fire protection.

Tacoma, Wash.—The city will shortly ask bids for building a new fire-boat to have a capacity of 6,000 gallons per minute.—R. M. Richards, Chairman, Fire Committee, City Council.

CONTRACTS TO BE AWARDED

Chicago, Ill.—Bids were received, August 14, for furnishing one aerial hook and ladder truck, as per specifications.—James Horan, Fire Marshal.

Chicago, Ill.—Bids were received, August 14, for rebuilding three aerial hook and ladder trucks, as per plans and specifications; also equipping same with quick raising devices.—James Horan, Fire Marshal.

Chicago, Ill.—Bids were received, August 11, for suction hose, as follows: five lengths, 3 1/2-inch, 11 feet 6 inches long; twelve lengths, 4-inch, 11 feet 6 inches long; six lengths, 4 1/2-inch, 11 feet 6 inches long; six lengths, 5-inch, 11 feet 6 inches long.—James Horan, Fire Marshal.

Chicago, Ill.—Bids were received, August 8, for ten steam fire engines, as per specifications.—James Horan, Fire Marshal.

Rock Island, Ill.—Bids were opened, August 4, for 1,000 feet of standard fire hose.—H. C. Schaffer, City Clerk.

Adrian, Mich.—Bids will be received, August 18, for constructing a hose and bell tower.—William Payne, Chairman.

Brooklyn, N. Y.—Bids will be received, August 27, for one fifty-foot water tower and two eighty-five-foot aerial hook and ladder trucks; also for establishing building and equipping an extension of the fire alarm telegraph system in the Borough of Queens.—John H. O'Brien, Fire Commissioner.

New York, N. Y.—Separate bids will be received, August 24, for furnishing, constructing and erecting an engine house for high-pressure fire service at Oliver and South streets, and at Gansevoort and West streets; also for furnishing, delivering and erecting the necessary plumbing and gas-fitting for the two stations.—William B. Ellison, Commissioner of Water Supply, Gas and Electricity.

MUNICIPAL BUILDINGS

Ensley, Ala.—An election will be held to decide question of issuing \$10,000 bonds for school purposes.

San Jose, Cal.—The citizens have voted \$300,000 bonds to repair county buildings damaged by the earthquake.

Millen, Ga.—The citizens will vote, August 22, on issue of \$190,000 court house and jail bonds.

Beggs, I. T.—Bonds, \$7,000, have been voted for school purposes.

Henderson, Ky.—An election will be held in November to pass on issue of \$300,000 court house bonds.

Oakland, Md.—At the November election the citizens will vote on issue of \$75,000 Garrett county court house bonds.

Natchez, Miss.—Council has petitioned the Legislature for authority to issue \$75,000 electric-light and \$25,000 school bonds, bearing interest at 5 per cent. and payable in 30 years.

Yazoo, Miss.—Bids were received, August 13, for \$25,000, 5 per cent., City Hall bonds.—J. P. Poursine, City Clerk.

Canadian, Tex.—The Attorney General has approved issue of \$7,500, 5 per cent., school bonds.

Eagle Path, Tex.—The citizens have voted issue of \$30,000 bonds for erecting a school house.

Fort Worth, Tex.—An election will be held, August 25, to decide question of issuing \$15,000 bonds for building a school house at Polytechnic Heights.

Granger, Tex.—The Attorney General has authorized an issue of \$15,000, 5 per cent. school bonds.

Karnes City, Tex.—The Attorney General has approved an issue of \$5,000 school bonds.

Sanderson, Tex.—The new county will issue \$30,000 bonds for erecting a court house.—Terrell County Commissioners.

Charlottesville, Va.—The city has authorized a \$135,000 bond issue to erect a new reservoir and lay a pipe line to city; contracts will be let in the next sixty days.—E. I. Carruthers, Auditor and Clerk of Council; Maj. Finance Committee.

PROPOSED WORK

Little Rock, Ark.—Council has authorized the purchase of eleven blocks at Markham street and Broadway, for \$32,300, on which to build a City Hall and Auditorium.

Washington, D. C.—G. B. Coleman, Superintendent of Repairs, estimates the expenditure of \$51,206.85 for repairs to schools during the year ending July 1, next, leaving \$13,793.15 of \$65,000, appropriated by Congress, for emergency work; the Gage, Blake, Franklin, Peabody, Abbott and Central High School buildings are the only ones which require more than \$1,000 worth of repairs.—H. L. West, John Biddle, Commissioners.

Chicago, Ill.—Plans are being prepared for building a 3-story school building, to cost \$30,000.—John S. Flizikowski, Architect.

Nokomis, Ill.—A special election resulted in approval of the project to build a \$5,000 City Hall.

Indianapolis, Ind.—Plans are about ready for building a new \$300,000 City Hall. The City Council has appropriated that sum.

Port Huron, Mich.—The City Council has approved plans for constructing a \$75,000 high school.

Albany, N. Y.—A site, consisting of 140,000 square feet of ground, has been selected for the new Education building; the State Architect is preparing floor plans of the proposed building, which is to cost \$3,500,000, and designs, plans and specifications for the construction of a modern fireproof structure will be invited from architects generally in a prize competition.—Dr. Vander Veer, Member, Board of Regents; Dr. Draper, Commissioner of Education; G. L. Heins, State Architect.

Fernie, B. C., Can.—Proposals have been asked and contracts will shortly be awarded for erecting a post office building.—Robert A. Kerr, Clerk, Board of Public Works.

CONTRACTS TO BE AWARDED

Washington, D. C.—Bids were opened, August 18, for furnishing railing for the Connecticut avenue bridge.—H. L. West, John Biddle, Commissioners.

Mt. Vernon, O.—Bids were opened, August 10, for the construction of a cement block school house.—O. F. Murphy, Clerk, Board of Education, Knox County, Ohio.

BRIDGES

Fort Worth, Tex.—A movement is under way to construct a modern concrete bridge across the Trinity river at City Park, replacing the wooden structure, the city, the county, the Northern Texas Traction Company and the Arlington Heights Traction Company being interested.

St. Boniface, Man., Can.—The citizens will vote, August 30, on issue of \$100,000 bonds for bridges over the Seine and Red rivers.

PROPOSED WORK

Peoria, Ill.—Council has adopted an ordinance inviting bids for constructing a \$225,000 bridge across the Illinois river, at the foot of Bridge street.—Address Commissioner of Public Works.

Monson, Mass.—The Town Board has voted to build a stone bridge.—C. L. Perk, Town Clerk.

Minneapolis, Minn.—The Board of County Commissioners of Hennepin County has voted to advertise for bids to build bridge No. 44.

Lebanon, Pa.—Many bridges in Lebanon county have been taken out by floods; plans are being considered for rebuilding.

CONTRACTS TO BE AWARDED

Peoria, Ill.—Bids for constructing a concrete arch bridge across the Illinois river will be opened September 4.—E. A. Furry, Commissioner of Public Works.

Wauseon, O.—Bids were received, August 20, for erecting the Whitmore, Sayles and Mattern bridges.—Address Fulton County Commissioners.

Carbondale, Pa.—Bids were received, August 20, for erecting a reinforced concrete bridge over the Lackawanna river, at Seventh avenue.—W. F. Williams, City Clerk.

STREET RAILWAYS

Waycross, Ga.—A franchise to establish a street railway has been petitioned for by George W. Dean.

Cleveland, O.—An ordinance has passed authorizing issue of \$80,000 bonds to construct an elevated railway and bridge across the ravine in Washington Park.—Peter Witt, City Clerk.

Hamilton, O.—The Cincinnati and Northern Traction Company will make changes in its route and extend it a mile longer.—C. A. Alderman, Chief Engineer.

Marion, O.—The Erie Railroad Company will build a power house to supply the Union Station switches and the railroad with electric light and power.

Sandusky, O.—Council is considering application of the Lake Shore Electric Company for a franchise to extend its trolley line to the city limits.

Oklahoma City, Okla.—The Newkirk, Tonkawa and Southern Electric Railway Company has decided to build an interurban electric line from Newkirk to Oklahoma City, traversing Kay, Noble, Logan and Oklahoma counties, and passing through Newkirk, Peckham, Blackwell, Billings, Perry, Orlando, Mulhall, Guthrie, Edmond and Oklahoma City; capital stock, \$1,500,000.—M. P. Brown, J. S. Kerfoot and H. E. Elder, Incorporators.

Columbus, Ind.—The Columbus Railway and Light Company will build and install a new power plant.—M. S. Hookins, General Superintendent.

Howard, S. D.—A franchise for the use of the city streets for an electric railway has been petitioned for by W. H. Blair.

Seattle, Wash.—Council has called an election to vote on issue of \$427,000 bonds for establishing municipal street railways.

GARBAGE AND WASTE DISPOSAL

New York, N. Y.—Bids will be received, August 23, for constructing a rubbish incinerator furnace on the pier at the foot of West Forty-seventh street.—F. M. Gibson, Deputy and Acting Commissioner of Street Cleaning.

Cleveland, O.—Council authorizes expenditure of \$10,000 for conveyors, elevators and motors for the garbage plant.—A. R. Callow, Secretary, Board of Public Service.

PARKS

Paducah, Ky.—Council is considering issue of \$100,000 municipal bonds for improving the park system and for bridges.

Cincinnati, O.—The issue of \$3,000 bonds for park purposes has been authorized.

MISCELLANEOUS

Cortez, Col.—Montezuma county has voted bonds for irrigation system.

Carrollton, Ga.—A second election will be held to establish the legality of the municipal improvement bonds, recently voted.

Indianapolis, Ind.—Bids will be received, September 1, for \$98,000, 3 1/2 per cent., 10-year bonds for voting machines.—Address County Auditor.

CONTRACTS TO BE AWARDED

Washington, D. C.—Bids will be received, September 3, for furnishing about 5,000 barrels of Portland cement at the office of the United States Reclamation Service at Garden City, Kan.—Thomas Ryan, Acting Secretary, Interior Department.

Albany, N. Y.—Bids will be received, August 29, for alterations to plumbing at State Capitol.—Daniel W. Cahill, Superintendent of Public Buildings.

Brooklyn, N. Y.—Bids will be received, August 29, for constructing a wrought-iron fence, with gates, at the old Ridgewood pumping station; also for erecting a concrete coal shed and culvert and doing all grading, sodding, etc., required at the new Canarsie pumping station.—William B. Ellison, Commissioner of Water Supply, Gas and Electricity.

IN THE MARKET

AT HOME

Bonnieville Press Brick Company, Bonnieville, Ky., wants pressed brick machinery.

Henry F. Alexander, M.D., Elizabethton, Tenn., wants equipment for a small ice plant.

A. B. Coe, Waycross, Ga., wants a 5 to 8-ton steam road roller.

Florala Sawmill Company wants a 4 to 6-ton ice plant.

Hall Bros., Dadeville, Ala., want gas engines and machinery.

Independent Ice Company, Wilmington, N. C., wants a 70-ton brine tank, 300-pound ice cans and fittings.

The Males Company, 26 Cortland street, New York, wants air compressors.

A. J. Moore, Secretary, Agricultural College, Starkville, Miss., wants machinery for a 10-ton ice plant.

Wendell Quarry Company, Durham, N. C., wants a complete 200-ton crushing outfit.

ABROAD

Africa.—Corrugated iron roofing, as well as carriages and surreys, are wanted at a consular station at an island off the coast of Africa. Address, 288, Bureau of Manufactures, Washington, D. C.

Argentina, Buenos Ayres.—Senores Segall y Cia want two refuse destructors. Address, 281, Bureau of Manufactures, Washington, D. C.

Argentina, Sujan.—The town wants an electric-lighting plant. Address, 280, Bureau of Manufactures, Washington, D. C.

Central America.—Small ice-making outfits are wanted. Address, 290, Bureau of Manufactures, Washington, D. C.

China.—The managing director of a new Chinese railway wants railway equipment. Address, 382, Bureau of Manufactures, Washington, D. C.

Egypt.—The Sudan Government Railways want miscellaneous equipment. Address, 274, Bureau of Manufactures, Washington, D. C.

Switzerland, Fribourg.—The Conseil d'Etat will receive competitive plans for a library. Address, 27, Bureau of Manufactures, Washington, D. C.

WANTS

DRAUGHTSMAN wanted by metallurgical plant between New York and Philadelphia; steel, copper or lead plant experience desirable, but not essential; applicants must state age, nature of experience, references and salary to start. Address, D. T. W., Municipal Journal.

DRAUGHTSMEN—Two good power station piping draughtsmen. D. W., 121, Municipal Journal.

DRAUGHTSMAN, architectural; experienced; state salary. D. B., 236, Municipal Journal.

DRAUGHTSMAN, with long years experience in the architectural line, on church, hotel, tenement, etc.; good perspective maker. 149, Municipal Journal.

ENGINEER wants position; steady and sober; young man; reliable. M. J., Municipal Journal.

ENGINEER, 38, first class apartment house mechanic, experience and references. 402, Municipal Journal.

ENGINEER: small plant; firing, repairing tools. W. H., Municipal Journal.

For Machines to Drill, Blast and Test Holes and Water Wells, write "LOOMIS CO., TIFFIN, O."

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A COMPENDIUM

Current Topics of Municipal Interest—
Opinions on City Affairs

Boundary Suits Between Neighbors.—These constitute probably the most productive part of the country lawyer's practice, and these give place in the city to suits for encroachment over the party line, the cause in each case being often identical—the error of the surveyor. A case recently arose in Brooklyn, N. Y., which reveals an unusual and expeditious way of dealing with a case of encroachment. It was discovered that the party wall of the new Eastern District High School accidentally encroached four inches on the adjacent lot. Ordinarily the aggrieved owner would penalize the trespasser heavily, even to the extent of causing him to tear down and rebuild, in addition to paying damages for trespass. In this case, however, the city, through its Board of Education, simply institutes "condemnation proceedings" against the injured owner, acquires the four-inch strip, possibly for less than it is worth to its former owner, and, even at that, does not have to pay, since the judgment will have to be satisfied by the contractors.—The American Architect and Building News.

Pasteurization and Its Danger.—Professor Harrington is not enthusiastic over pasteurization as a means of guaranteeing a pure milk supply. "When you dig a trench in the street," he said, "you put up a red lantern at night to keep the people from falling into it. In milk the red lamp, the danger signal, is the lactic ferment which causes it to sour. When you pasteurize the milk you destroy this ferment and take down the danger signal. Professor Harrington advocated the passage of a law compelling a label on pasteurized milk the same as in Massachusetts. "This work of milk inspection began in Massachusetts a year ago last March. The local inspector of dairies makes examinations and reports each day to the State Board of Health his findings. Letters are directed by the board to the owners of those dairies of which complaint is made, and they are informed of the conditions they must meet if they desire to sell milk. Next the local board is notified of what the dairymen have been told, with the instruction that if the regulations are not complied with, the board will be expected to prevent the sale of the milk. A third letter goes to the milk contractor, informing him not to accept milk from certain dairymen until they shall comply with the regulations for the purity of the supply. Thus there are the three checks to insure the adoption of the pure-milk system, and in ninety-nine cases out of a hundred the dairymen adopt it. The movement is having a great effect. Whenever word is received that the dairy inspector is coming to a certain locality the price of lime goes up there; the dairymen are buying it and cleaning up. A monthly bulletin is issued by the State Board of Health containing the names of those persons who have kept clean dairies during the month, and they are all anxious to get on the honor roll. The dairies are kept up to a high standard and the general health is benefited thereby.—The Seattle Intelligencer.

A DIRECTORY OF MUNICIPAL AND
ALLIED SOCIETIES

August 21-22. **Interstate Firemen's Association.**—Tournament, Carroll, Ia.—J. H. Post, Secretary, Carroll.

August 21-24. **New York State Firemen's Association.**—Convention, parade, and tournament, Jamestown, N. Y.—Thomas Honohan, Secretary, Frankfort, N. Y.

August 22-24. **Upper Peninsula Firemen's Association.**—Tournament, Houghton, Mich.—T. J. Flynn, Secretary, Negaunee.

August 22-24. **Virginia State Firemen's Association.**—Convention, Richmond.—G. C. Cumming, Secretary, Portsmouth, Va.

August 27. **National Civic Federation Committee.**—New York City.—M. E. Ingalls, Chairman.—Clinton Rogers Woodruff, Secretary, Philadelphia.

August 28-29. **Ohio State Fire Chiefs' Association.**—Convention, Cedar Point, Ohio.—D. K. Mossier, Secretary, Warren, Ohio.

August 28-30. **Montana State Firemen's Association.**—Convention, Hamilton, Mont.

August 28-31. **Pacific Coast Association of Fire Chiefs.**—Convention, Calgary, Alberta, Canada.—W. C. Yoran, Secretary, Eugene, Oregon.

September 5. **American Society of Civil Engineers.**—Next meeting, 220 West 57th street, New York.—Charles Warren Hunt, Secretary.

September 6. **Green County Firemen's Association.**—Convention, Hunter, N. Y.

September 12-14. **New England Water Works Association.**—Annual convention, Fabyan House, White Mountains.—Willard Kent, Secretary, Tremont Temple, Boston, Mass.

September 13. **New York State Firemen's Association.**—Convention, Atlantic City, N. J.

September 12-14. **Massachusetts State Firemen's Association.**—Convention, Worcester, Mass.

September 26-28. **League of American Municipalities.**—Tenth annual convention, Chicago.—John MacVicar, Secretary, Des Moines, Iowa.

September. **Municipal Civil Service Commissions of all cities in New York State.**—Under auspices of State Civil Service Commission, Albany, N. Y.

October 1-6. **Pennsylvania State Firemen's Association.**—Convention, Gettysburg, Pa.

October 9. **American Society of Municipal Improvements.**—Annual convention, Birmingham, Ala.—George W. Tillison, Secretary, Municipal Building, Brooklyn, N. Y.

October 9. **West Virginia Board of Trade.**—Charleston.—R. B. Naylor, Secretary, Wheeling.

October 9-12. **International Association of Fire Engineers.**—Annual convention, Dallas, Tex.—Jas. McFall, Secretary, Roanoke, Va.

October 15-19. **American Street and Interurban Railway Association.**—Annual convention, Columbus, Ohio.—B. V. Swenson, Secretary, 30 Wall street, New York City.

November 14-16. **International Congress on Tuberculosis.**—New York City. (The principal purpose of the congress will be that of urging preventive legislation against tuberculosis, the adoption of municipal and government sanitaria and discussion of all the questions involved.)

November 15. **National Society for the Protection of Public Health and Morals.**—To be organized at Hudson Theatre, New York City.

November 20-23. **Trans-Mississippi Commercial Congress.**—Seventeenth Annual Session, Kansas City, Mo.—Address Board of Trade, Kansas City.

January. **American Institute of Social Service.**—Exposition, New York City.—Dr. William H. Tolman, Director, 287 Fourth avenue, New York.

WHO'S WHO IN
MUNICIPAL WORK

BECK, Howard C.—Deputy City Comptroller, Detroit, Mich., since 1895. Born at Irvington, N. J., August 4, 1868; son of Rev. Charles A. and Amanda (Cossart) Beck. Graduated in scientific course, Portsmouth (N. H.) High School, 1884; married Flora, daughter of C. McElroy, St. Clair, Mich., June, 1894. Two children—Margaret, born 1892; Howard C., Jr., 1896. Associated with the Bradstreet Mercantile Agency in Detroit office in various capacities, 1884 to 1892. Appointed warrant clerk, Comptroller's office, 1892; chief clerk, 1894, and Deputy Comptroller by the late Comptroller F. A. Blades, 1895. Member of Committee on Uniform Municipal Accounting, National Municipal League; chairman Committee on Uniform Accounting, League of Michigan Municipalities; secretary of National Association of Comptrollers and Auditors; member of Michigan Society of Public Accountants, and affiliated member of National Association of Public Accountants. Has made a wide study of municipal accounting, and made many improvements in Detroit's fiscal system, centralizing in the Controller the auditing power for all departments, and handled important financial legislation for Detroit at the State capital since 1897. Residence, Detroit, Michigan.

JOHNSTON, Robert.—Was born in Portsmouth, Va., November 15, 1859. Moved to Washington, D. C., July, 1865. Attended the public schools up to 1874. Entered the Treasury Department the same year; assigned to duty in office of Secretary. Attended night school from 1874 to 1879. Entered Georgetown University Law School. Graduated June, 1881, degree B.L. Appointed Chief of a division in Custom Bureau in 1882 or 1883. Was detailed while in Treasury Department to convey \$500,000 in bonds to Sub-Treasury in New York. Detailed to look into and report on collection methods, etc., in Chicago Custom House, Kansas City and El Paso, Tex. Resigned December, 1883. Established the Old Dominion Paper Company, of which he is still president. Elected a member of the First Board of Control of the City of Norfolk. Residence, Norfolk, Virginia.

McCARTHY, James W.—President of the Board of Aldermen, Jersey City, N. J. Was born in Jersey City thirty-three years ago. He left school at the age of 13 and became cash boy for Charles S. Furst and Brown & Van Anglen dry goods stores, in Jersey City. At the age of 14 he entered the employ of the Adams Express Company as label boy, and worked his way up to chief clerk of the treasury department of that company, leaving its employ in 1900 to take up the practice of law in that city and New York, having studied at nights for the previous seven years, and graduated from the New York Law School. He is a member of the Lodge of Elks, and an officer and member of Adams Express Company Employees' Association; a charter member and present worthy president of the Jersey City Aerie, Fraternal Order of Eagles. He served on Sheriff Zeller's April, 1903, Grand Jury. Residence, Jersey City, N. J.

LEGAL DIGEST—

A Summary and Notes of RECENT DECISIONS

Authorities Upheld

Baltimore vs. Gahan.—The Commissioners for Opening Streets have full power to pave such streets in the Annex as they may deem proper without the adoption of any ordinances designating the streets to be paved. The same Commissioners have the right to select the kind of material to be used in paving Twenty-fifth street. The Commissioners for Opening Streets have the power to put asphalt block, bitulithic and vitrified brick pavements in competition with each other, and, after the bids have been opened by the Board of Awards, to select the one of the three pavements to be used. The Board of Awards has the power to award the contract to the lowest responsible bidder upon the kind or character of pavement so selected, even though a bid has been filed on some other material which is lower than the lowest responsible bid on the selected material.—Court of Appeals, Baltimore, Maryland.

Engineer's Discretion

George Westinghouse vs. City of Pittsburgh.—Where a property owner petitions for the improvement of a street, and the work is done, the City Engineer making some slight changes from the plans to suit existing conditions, the property owner has no standing to object to this assessment on account of the changes unless the changes damaged his property.—Common Pleas, Allegheny County, Pa.

Imperfect Insulation

Stark vs. Muskegon Traction Co.—The violation of a municipal ordinance as to the manner of stringing the electric-light wire which charged a broken telephone wire, or the imperfect insulation of the wire, is held not to be the proximate cause of an injury to a boy who seized the broken telephone wire to receive the shock.—District Court, Muskegon, Mich.

Individual May Sue

Pond vs. New Rochelle Water Co.—A consumer's right to maintain a suit to compel a water company to furnish water at rates stipulated in a contract with a municipality is upheld.—Supreme Court, New York.

Defective Pavement

Cleveland vs. Payne.—Knowledge of a policeman concerning a defect in a street is held not to be such notice to the municipality as to make it responsible for damages resulting from the defect, in the absence of any statute or ordinance charging policemen with the duty of repairing or looking after the streets.—Supreme Court, Cleveland, Ohio.

Labor Legislation

In re Broad.—A municipal ordinance fixing the hours of labor and the minimum rate of wages to be paid to laborers upon a public contract, is held not to interfere with the constitutional guaranty of liberty and property.—Supreme Court, Olympia, Wash.

INCORPORATIONS

When our readers desire to correspond with any of the following companies, they should address the company itself or a director, incorporator or other official or partner by name to the address (if given) under such name. This will prevent letters being marked "unknown" and returned.

Brass Specialties Company, New York City. To manufacture lamps, candle holders, shades, etc. Capital, \$50,000. Incorporators: William H. Wadham, 32 Liberty street, New York; Albert W. Putnam, 16 West 77th street, New York; Robert W. White, 18 Murray street, New York; Harry N. Wessel, 201 West 117th street, New York; M. L. Bishop, 32 Liberty street, New York.

Buffalo Sand Company, Hamburg, N. Y. Sand, gravel, building materials. Capital, \$15,000. Incorporators: Robert Y. Milne, Hamburg, N. Y.; Henry Rice, Charlotte Rice, Buffalo, N. Y.; Eli M. Milne, Hamburg, N. Y.

Carey Water Power and Mineral Company, Carey, Ill. Capital, \$2,500. Incorporators: J. E. Turner, F. Hammond, and R. A. Young.

Cator Dump Wagon Company, Palmyra, N. Y. To manufacture dump wagons and vehicles. Capital, \$50,000. Incorporators: Leon Cator, Richard G. Cator, Edward C. Worth, Palmyra, N. Y.

Concrete Block Company, Everett, Mass. Concrete, gravel, sand, etc. Capital, \$8,000. President, Edgar L. Fuller, 63 Cottage street, Everett, Mass.; treasurer and clerk, Charles L. Matthews, 16 Prospect street, Everett, Mass.

William L. Crow Construction Company, New York City. Building, contracting and real estate. Capital, \$100,000. Incorporators: William L. Crow, Ralph L. Crow, H. P. Wright, 287 Fourth avenue, New York.

Dallas Ice and Power Company, Portland, Maine. Real estate and ice. Capital, \$300,000. President and treasurer, John Gordon, Boston, Mass.; clerk, F. L. Jerris, Portland, Me.

Emery County Land and Water Company, Utah. Capital, \$30,000. Incorporators: A. M. Allen, Secretary, and others.

Farmers' Heat and Light Company, Evansville, Ind. Capital, \$10,000. Incorporators: Hiram A. Gosch, Smith Welshire, William Welshire.

The Henry M. Glen Wagon Company, Seneca Falls, N. Y. To manufacture dumping wagons, etc. Capital, \$30,000. Incorporators: Henry M. Glen, Cornelius S. Hood, Louis H. Hood, Seneca Falls, N. Y.

Grayson Light Company, Grayson, Ky. Capital, \$5,000. Incorporators: H. L. Woods, Olive Hill; E. C. Haggard, Morehead, and others.

Lorenz Ventilator Company, St. Louis, Mo. Capital, \$20,000. Incorporators: Jacob Lorenz, Philip Bender, Henry Herr.

Mechanics' Construction Company, corner Communipaw and Crescent avenues, Jersey City, N. J. Construction, etc. Capital, \$125,000. Incorporators: Newman H. Raymond, 226 Clerk street, Jersey City; Harold J. Moore, 316 Pavonia avenue, Jersey City; George H. Hahn, 509 Jersey avenue, Jersey City.

Menenan Marble and Slate Works, New York City. To manufacture, quarry and deal in slate, marble, etc. Capital, \$10,000. Incorporators: Louis Dutoit, Benjamin Troupiansky, Joseph Troupiansky, John Moahman, all of New York.

Moreland Chemical Company, 148 Midland avenue, Kearny, N. J. To manufacture cement composition, etc. Capital, \$125,000. Incorporators: Lawrence R. Blackmore, Philip C. Powland, David Schneiber, all as above.

Natural Hygeia Ice Company, 491 Broad street, Newark, N. J. To manufacture machinery, etc., for cutting and manufacturing ice. Capital, \$100,000. Incorporators: Milton E. Crawley, 65 Garside avenue, Newark, N. J.; William Endersy, 498 Broad street, Newark, N. J.; Albert A. Breeze, 142 Market street, Newark, N. J.

Nelson Brothers Company, New York City. Stone quarrying, manufacture of bricks, cement, etc. Capital, \$25,000. Incorporators: James Nelson, Jr., Brooklyn; William C. Nelson, Brooklyn; Clark L. Daggett, Albany, N. Y.; William E. Hoyt, Schenectady, N. Y.

The Pellarin, Borth Company, New York City. To manufacture mosaic, marble, glass, etc., for building and structures. Capital, \$10,000. Incorporators: Francesco Pellarin, 61 East Washington street, New York; Achille Bontuluzzi, 213 West 10th street, New York; Antonio Falciere, 116 Cypress avenue, New York.

BOOK REVIEWS

Assainissement des villes.—**Distributions d'eau.**—Par A. Debauve, Inspecteur général des ponts et chaussées, professeur à l'Ecole des ponts et chaussées et le Dr. Ed. Imbeaux, ingénieur des ponts et chaussées directeur du service municipal de Nancy, Paris, H. Dunod et e Penat. Third édition complètement remaniée et considérablement augmentée. 3 vol. gr. in-8, formant ensemble 1,916 pages, avec 660 figures et un atlas in-4 de 72 planches. Paper, 6 1/4 x 9 3/4 inches. This work includes the theory and practice of hydraulics so far as is necessary to a proper understanding of the subject; a description of meters, the study of the qualities of water and the processes necessary to follow for its purification and supply, together with the investigation of all natural surface or underground waters. It describes and comments on the devices for elevating and on engines of all kinds. Numerous examples of reservoirs, of sources of power, of derivation and of pumping stations, furnish the most varied illustrations; it also contains a summary of the legislation concerning water, types of collection and distribution, and all the mathematical tables necessary to estimate the functions of the distribution of water and sewage. We are of the opinion that the work fills a decided want and that it offers an indispensable authority to cities, to engineers and to all those who have charge of the question of water in towns, whether large or small. The treatise on the distribution of water and sewerage, published in 1897, by M. Debauve, being exhausted, the editors requested the author to prepare a new edition. The work has been entirely revised and extended so as to include the study of all new questions which pertain to that branch of the engineering profession, which has also become an integral part of the study of hygiene and medicine. Under these conditions M. Debauve was not able alone to assume so great a responsibility. He was fortunate in obtaining the co-operation of M. De Imbeaux, whose tireless activity and ability in that department are generally recognized. Supplied by the Municipal Journal and Engineer at \$15 postpaid.

Hints and Helps for Young Gardeners.—By H. D. Hemenway, Hartford, Conn.; flexible cloth, 6 by 9 inches, 60 pages.—This little book is written for youthful or inexperienced gardeners. In plain language, it teaches how to plan gardens, till the soil, and how to plant. The setting out of trees, the making and care of hotbeds, strawberry culture, asparagus culture and window gardening are other subjects dealt with. Supplied by the Municipal Journal and Engineer at 35 cents postpaid.

Willing's Press Guide for 1906.—London, England. James Willing, Jr., Ltd., 125 Strand, W. C.; Stiff boards, 5 1/2 by 8 1/2 inches, 461 pages.—A capital arrangement and indispensable guide to the newspaper and periodical press of Great and Greater Britain and the European Continent, alphabetically arranged as well as classified both under class and district, and all in a portable, handy shape. Is clearly printed with easily read, thin-face type. A good idea excellently carried out.

Trade Notes

FIRE ENGINES.—The Binghamton, N. Y., Fire Department has just purchased from the Nott Engine Co., Minneapolis, Minn., a No. 1 steamer, at a cost of \$5,650, complete. The Department already has steamers made by the La France Co., Elmira, N. Y.

GAS MACHINE.—The Fargo Incandescent Gas Machine Company, Fargo, North Dakota, make a machine for residences, stores, public buildings or small towns. Five gallons of gasoline make a thousand feet of a gas which produces a bright, steady light for illuminating and heat for cooking. The gas may be generated outside of the building in a tank buried in the ground.

POWER STATION.—The plans of the Great Northern Power Company of Duluth, Minn., are second only to those successfully carried out at Niagara. Under construction at the present time is a 40,000-horsepower station which will form a part of a 200,000-horsepower system. Railway and lighting interests of Duluth and Superior have already contracted for power. Plants for transferring freight will take a large part of the power, the total amount of freight in tons being greater than that handled at New York. The general scheme of this power development originated with T. A. Cokefair of Duluth. The initial hydraulic apparatus to be installed consists of three 13,000 horse power Allis-Chalmers turbine water wheel units.

SCREENING DRY MATERIALS.—The Newago Portland Cement Company, Newago, Mich., publishes a catalogue describing its "Newago Separator," which is fitted with any size screen from 1 to 100 meshes per inch. The screen is claimed to have great capacity per square foot of screen surface, to be economical to operate, and to require little power. It will make two divisions of material and deliver each into separate conveyors.

SEAL FOR STOP COCKS.—The Hazlewood Gas Co., Anderson, Indiana, makes a seal which they have used on their own plant when the results have been very satisfactory. A light sheet metal cage encloses the stop cock or union to be protected, which is held in place by a copper wire bound with a lead seal.

WATER WASTE.—The Hersey Mfg. Co., South Boston, Mass., issue a booklet made up of extracts from an article in the Worcester *Sunday Telegram*. As a result of the first year's installation of meters the Water Department receipts increased \$15,000, while the amount of water consumed decreased nearly a million gallons a day and for the first time in years the Water Department has been self-supporting. Now all main and fire taps from which water could be illicitly drawn are equipped with detector meters. The city can account for 65 per cent. of the water that leaves the reservoirs.

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PATENT CLAIMS

826,989.—Fabric for Cement Plastering and Concrete. Buss von Busse, Marienwerder, Germany. Serial No. 299,575.

A fabric for manufacturing constructions of all kinds, comprising bare wires of different thicknesses, the smaller wires being interwoven among themselves and among the larger wires to form squares, and threads of fibrous material interwoven between said squares, substantially as described.

827,025.—Device for Thawing Frosted Fire-Hydrants, Water-Mains, and Service-Pipes from Mains to House-Hydrants. George T. Liddle, Muskegon, Mich. Serial No. 204,143.

The combination with a water-supply pipe and a hydrant connected therewith, of a thawing pipe or conduit having a portion extending adjacent to and outside of the hydrant, a portion extending adjacent to and outside of the supply-pipe and having both ends accessible and removable caps for the ends of said thawing pipes or conduit, said caps being provided with vent-openings on their under sides whereby either of said caps may be removed to permit the admission of a thawing fluid, which escapes through the vent-openings of the other cap, without necessitating the removal of said cap, substantially as described.

827,070.—Sewer-Pipe-Junction Cutter. John E. Minter, Macon, Ga. Serial No. 282,305.

In a pipe-cutter, the combination with a base, of a rectangular frame pivotally mounted in the base, said frame including double side bars, an oscillating cutter mounted between the innermost side bars, brackets secured to one of the outermost side bars, and a rotatable cutter mounted in the brackets.

827,092.—Sanitary Disinfecting and Deodorizing Block. Joseph T. Freestone, Rock Ferry, England. Serial No. 277,517.

A sanitary block soluble in water or fluids containing water, consisting of naphthalene, hard pressed and highly refined, thirty parts; resin, twenty-five parts; pine-oil, twelve parts; alkali, thirteen parts; and water, fifteen parts; substantially as set forth.

827,158.—Composition of Matter to Be Used in Making Waterproof and Polishable Cements. Paul O. Krottnauer, Chicago, Ill. Serial No. 274,243.

The herein-described composition of matter consisting of Portland cement sixteen parts, natural fat one part, acid eighteen and twenty-four one-hundredths parts, and finely ground clay or coloring matter sixteen parts, substantially as specified.

827,162.—Sanitary Device for Closets. Albert F. Lester, New York, N. Y. Serial No. 266,236.

The combination with a closet-bowl, of means fixed upon the closet-bowl for drawing a sheet of flexible material over the seat portion thereof, with an intermittent motion whereby successive portions of said sheet may be brought to rest over said seat portion, and a support for the portion of flexible material thus brought to rest, said support and the flexible material thereon being movable in a direction which will not disturb the connection of the sheet with said drawing means.

827,324.—Sewer-Gas Trap. John P. Putnam, Boston, Mass. 1903. Serial No. 157,387.

A sewer-gas trap having an inlet arm and an outlet arm and a reservoir chamber between them, the chamber being provided with a partition forming a continuous, uninterrupted spiral waterway, one end of which connects with the inlet and the other with the outlet arm.

827,355.—Holder for Street Signs. Frank P. Flowers, Toledo, Ohio. Serial No. 261,024.

In a sign, the combination with two parallel separated signs; of a support therefor comprising upper and lower channel-bars, each having channels along its two edges to receive the edges of said signs, end channel-bars interposed vertically between said top and bottom bars and interposed laterally between said signs, and means between said signs for clamping the parts tightly together to exclude rain from between the signs.

827,399.—Apparatus for Purifying Water. Solomon L. Sheuerman and Juan F. Hand, Des Moines, Iowa; M. N. Baker, administrator of said Juan F. Hand, deceased. 1905. Serial No. 261,410.

An apparatus for purifying water embodying a reagent-container, a pair of tanks therebeneath, an oscillating receiver, a pair of oppositely-inclined stationary gutters leading from said container to said tank, a bucket pivoted to the top of each container, and a connection between each end of said receiver and the adjacent bucket.

Proposals

Alterations to Plumbing

Albany, N. Y.

Sealed proposals, suitably endorsed on envelope, for alterations to plumbing, State Capitol, Albany, N. Y., will be received up to two o'clock in the afternoon on Wednesday, the twenty-ninth day of August, 1906, at the office of the State Superintendent of Public Buildings, in the Capitol, Albany, N. Y., when bids will be opened and read publicly.

Drawings and specifications may be consulted and blank forms of proposals obtained by application to Hon. G. L. Heins, State Architect, Capitol, Albany, N. Y.

The right is reserved to reject any and all bids.

DANIEL W. CAHILL,
Sup't of Public Buildings,
S. N. Y.

Notice to Contractors

Bids will be received at the office of the City Engineer, in the city of Paducah, Ky., up to 3 o'clock, August 25, 1906, for the construction of about seven (7) miles of combined sanitary and storm water sewers, in the city of Paducah, Ky.

Plans and specifications will be on file in the Engineer's office, in the city of Paducah, Ky., after August 15, 1906. A certified check of \$1,000 must accompany each and every bid.

The city reserves the right to reject any and all bids.

Lighting of Streets

Office of the Mayor,
Anniston, Alabama, July 17, 1906.

BIDS WANTED

Sealed proposals, in duplicate, will be received at this office until 12 o'clock, noon, September 20, 1906, for furnishing a minimum of one hundred (100) electric arc lights, to be located under the direction of the Mayor and City Council, on the streets of Anniston, maintaining same and supplying current for the lighting thereof nightly until 10 o'clock p.m., and during all dark hours after said hour, for terms of ten, twenty and thirty years, beginning July 1, 1908. Consumption of electric current at the arc of said lamps must be given, and in all bids must be given a bid for lamps consuming 450 watts at the lamp terminals. The award of this contract will carry with it a franchise for the privilege of supplying electric current for all purposes to corporations and private citizens, and rates at which said current will be sold must be made a part of each proposition. A certified check on a responsible bank for one thousand (\$1,000) dollars must accompany each bid as a guarantee that a contract, under \$15,000 bond, will be entered into within thirty days after the award thereof, for the purpose of carrying out the terms of the contract. The city reserves the right to reject any and all bids.

THOMAS E. KILBY,
Mayor.

Street Improvements

NOTICE TO CONTRACTORS.

Paducah, Ky., Aug. 11, 1906.

Bids will be received at the office of the Board of Public Works, until 3 P.M., Aug. 29th, 1906, for the reconstruction of several streets with Vitrified Paving Blocks, Storm Water Sewers, Curbing and Granitoid Sidewalks.

Approximate quantities as follows:

18-inch pipe.....	1,695 lin. ft.
12-inch pipe.....	1,080 " "
10-inch pipe.....	1,020 " "
8-inch pipe.....	330 " "
6-inch pipe.....	1,381 " "
Manholes.....	15
Intakes.....	11
Excavation for paving.....	3,810 cu. yds.
Brick paving.....	7,161 sq. yds.
Combined curb and gutter.....	2,137 lin. ft.
Concrete curb.....	755 "
Limestone curb.....	825 "
Porous tile.....	2,942 "
Driveways.....	2,570 sq. ft.

A certified check for \$500 must accompany each bid. Board of Public Works reserves the right to reject any and all bids. Specifications and plans can be seen at the office of the City Engineer.

L. A. WASHINGTON,
City Engineer.

Asphalt Block Paving

Sealed bids will be received by William T. Barker, Chairman of the Paving Committee of the City of Bridgeton, New Jersey, at the Council Chamber at 8 o'clock P.M., September 4, 1906, for the paving of Water street from Broad to Hampton street; a certified check for 10 per cent. of the aggregate amount of the bid, made payable to the City Comptroller, must accompany each bid. Instructions to bidders and blank forms of proposals may be obtained at the office of Walter M. Sharp, City Surveyor, 36 South Laurel street, Minch building, Bridgeton, New Jersey. Two months will be allowed to complete the work. The City Council reserves the right to reject any or all bids. William T. Barker, Robert Craig, Thos. H. Woodruff, William Marks, William F. Murphy, Paving Committee.

Street Lighting

Sealed proposals will be received by the Town Council of Pottsville, Pa., until 7:30 p.m., on Tuesday, Sept. 18, 1906, for lighting the streets of the borough and borough buildings with either electricity or gas for a period of five years from February 15, 1907.

"Bids for electric lighting to be for 137 or more arc lights and 50 or more incandescent lights for streets, with extra bids for buildings."

"Successful bidder to furnish approved bond in the sum of ten thousand dollars, conditioned for faithful performance of contract."

"A certified check for \$2,500 to accompany each bid, which shall be forfeited on failure to execute said bond and contract. Candle power and character of lamp to be designated in bid. Council reserves the right to reject any or all bids or parts of bids."

By order of Town Council.

Attest:—G. A. BERNER, Town Clerk.
Pottsville, June 19, 1906.

Notice to Contractors

Sealed proposals will be received by the Clerk of the Village of Cadiz, Ohio, until 12 o'clock, noon, August 31st, 1906, for 17,700 square yards, more or less, of street paving with brick.

Plans and specifications can be seen and forms of proposals obtained at the office of the Village Clerk, or the Engineers, The Riggs-Sherman Company, 613 Nasby Building, Toledo, Ohio.

By order of the Council.

W. H. LUCAS, Town Clerk.

Water Purification Plants

Office of Sewerage and Water Board,
602 Carondelet St.,
New Orleans, La., June 15, 1906.

Sealed proposals will be received, until 3 o'clock P.M., Wednesday, September 5, 1906, for furnishing and erecting two complete water purification plants—one of 40,000,000 gallons capacity and one of 4,000,000 gallons capacity—including excavations, foundations, concrete masonry, reservoirs and filters, head houses, pumping station building, wharf and intake, coal storage, machinery for handling coal, and other mechanical equipment, and all piping and appurtenances complete, ready for operation.

The following are the approximate areas covered by the more important structures:

Pumping station and boiler room 26,750 sq. ft.

Head house 10,200 sq. ft.

Filters 19,600 sq. ft.

Open coagulating reservoirs 488,800 sq. ft.

Covered clear water reservoirs 161,640 sq. ft.

Coal and coagulant storage house 6,880 sq. ft.

Wharf 2,220 sq. ft.

Length of trolley line 1,160 lin. ft.

The reservoirs are approximately from 10 to 20 feet deep, mostly of reinforced concrete construction and with concrete lining.

Specifications, general plans and blank form of proposal may be obtained at the office of the Sewerage & Water Board after July 1st. Plans can be seen at once at the office of the Board or at the office of Hering & Fuller, Consulting Engineers, 170 Broadway, New York City.

A certified check on a New Orleans bank, in the sum of \$40,000, deposited in accordance with the terms of the specifications, will be required of each bidder.

A deposit of \$100 will be required for each set of plans and specifications given out, which will be refunded upon the return of said sets in good condition.

The right is reserved to reject any or all bids.

F. S. SHIELDS, Secretary.

GEO. G. EARL, Gen. Supt.

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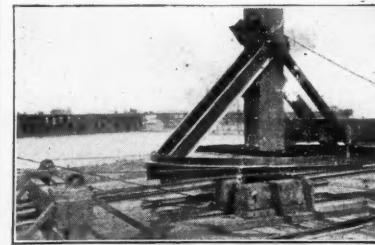
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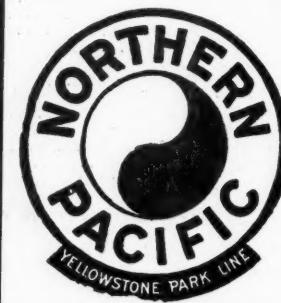
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